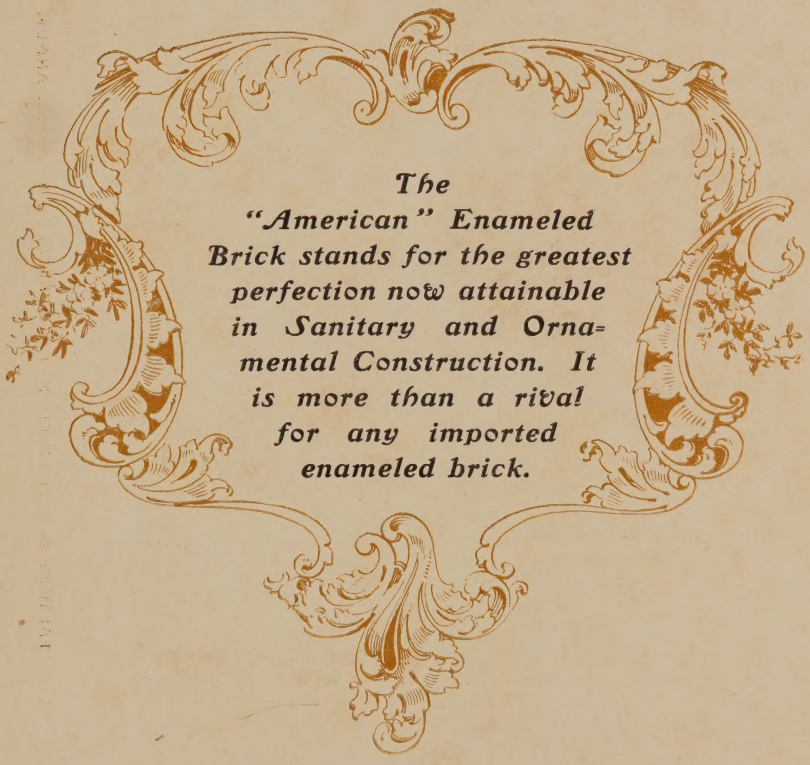
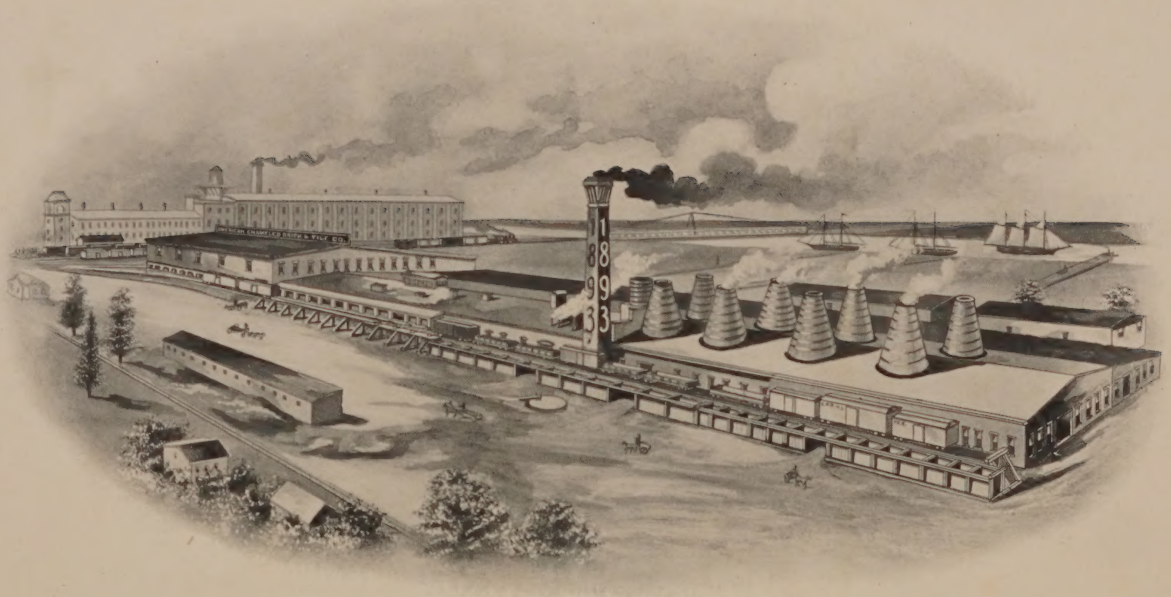
ENAMELED BRICK

COLORS, SIZES & SHAPES.

AMERICAN ENAMELED BRICK AND TILE CO.

AT
820
Am354


The
"American" Enameled
Brick stands for the greatest
perfection now attainable
in Sanitary and Orna-
mental Construction. It
is more than a rival
for any imported
enameled brick.



FACTORY SOUTH RIVER, N. J. CAPACITY, 3,000,000 PER ANNUM.

Third Edition Catalogue, 1906

CATALOGUE

OF STANDARD COLORS
SIZES AND SHAPES OF

Enameled Brick

FOR EXTERIOR AND INTERIOR USE

PATENTED SPECIALTIES

ENAMELED INTERLOCKING WALL TILE

With L-Shaped Return—Avoids continuous corner beads and is guaranteed proof against pulling out or unsetting.

ENAMELED SUBWAY TILE

For Facing Walls of Subways.

ENAMELED BEAM COVERS

With Skew Back and Soffit Tiles to cover I beams, single, compound, or built-up girders.

American Enameled Brick and Tile Co.

(INCORPORATED 1893)

1 Madison Avenue, New York

J FRANCIS BOORAEM, M. E.
Secretary and Treasurer
1 Madison Ave., - - - N. Y.

BERNARD JACQUART
Superintendent
South River, - - N. J.

Cable Address: "AMEREBRICK"

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BY
AMERICAN ENAMELED BRICK AND TILE CO.

INTRODUCTION

PERSONAL REPRESENTATIVES

With our customers scattered over the United States from Maine to California, and in foreign lands, we have, in order to keep in closer touch with them, located REPRESENTATIVES IN ALL LARGE CITIES TO PERSONALLY ATTEND TO INQUIRIES, ORDERS AND DELIVERIES. (See list of cities in which located, page 6.) These representatives are in daily touch, by mail and wire by special code, with our New York office; and the latter is within an hour's travel of the works in the State of New Jersey, one of the best clay districts in this country.

MANAGEMENT AND DISPATCH OF SHIPMENTS

Factory and office are in constant telephone connection with each other, and we have a local telephone exchange in the factory for quick and systematic dispatch of business.

RAILROAD AND WATER SHIPPING FACILITIES

The works are situated so as to enable shipping over two of the largest railroads, viz., the Pennsylvania and its connecting lines; the Central of New Jersey, and the Baltimore and Ohio and their connecting lines. We are also situated on tide water, so that shipments can be made by vessel. These advantages, actively pushed and improved, have brought us to a capacity of over sevenfold our original output, which is now being further increased to meet the demands of over fifty active, personally known representatives in the field.

PRECAUTION AGAINST DELAY DUE TO BREAKDOWNS

Every part of our factory, including machinery, has its duplicate, which prevents any possible delay during breakdowns, should they occur.

LARGE CAPACITY

The average stock on hand at our factory is over TWO MILLION BRICK, giving a large assortment for immediate delivery. A larger amount on hand than usually the case, and representing a large outlay in cash.

WRITE US AND WE WILL SEND PERSONAL REPRESENTATIVE TO SEE YOU AT ONCE

DIRECTORS

JULIUS A. STURSBERG, President.

J. V. V. BOORAEM, M. E. (Consulting Engineer), Vice-President.

CHAS. F. ZENTGRAF.

EMIL H. FRANK.

BERNARD JACQUART, Superintendent.

J. FRANCIS BOORAEM, M. E., E. E., Secretary-Treasurer and Manager.

BRANCH OFFICES

BOSTON, MASS.
PHILADELPHIA, PA.
PITTSBURG, PA.
WASHINGTON, D. C.
BALTIMORE, MD.
CLEVELAND, OHIO.
CINCINNATI, OHIO.
COLUMBUS, OHIO.
DAYTON, OHIO.
DETROIT, MICH.
RICHMOND, VA.
SAN FRANCISCO, CAL.
ST. LOUIS, MO.
KANSAS CITY, MO.
ST. PAUL, MINN.
SEATTLE, WASH.
TACOMA, WASH.
NEW ORLEANS, LA.
KNOXVILLE, TENN.
JACKSONVILLE, FLA.
SYRACUSE, N. Y.
UTICA, N. Y.
BUFFALO, N. Y.
SCHENECTADY, N. Y.
ROCHESTER, N. Y.
NEW HAVEN, CONN.
HARTFORD, CONN.
MERIDEN, CONN.
MILWAUKEE, WIS.
PORTLAND, OREGON.
SIOUX CITY, IOWA.

MONTREAL.
TORONTO.
OTTAWA. } CANADA.

BUENOS AYRES, SOUTH AMERICA.

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KEY TO COLOR SHEET

Color is indicated by hundred-numerals. Shade is indicated by unit-numerals.

We Indicate White by	We Indicate Cream by	We Indicate Red-Brown by
No. 101	No. 301	No. 501
" 102	" 302	" 502
" 103	" 303	" 503
" 104	" 304	" 504

No. 101 is lightest shade of white.
No. 104 is darkest shade of white.
No. 301 is lightest shade of cream.
No. 501 is lightest shade of red-brown.

NOTE.—We guarantee uniformity of shades in all first-quality deliveries to the limit of practicability. Colors giving most uniform results are, in order of degree of uniformity, white, red-brown and dark green. Other colors follow in irregular positions.

AMERICAN ENAMELED BRICK AND TILE CO., NEW YORK.

As catalogue goes to press we have just completed contract for exterior of

FRICK BUILDING ANNEX, Pittsburg, Pa.

Architects:
D. H. Burnham & Co., Chicago, Ill.

General Contractor:
Falkenau Construction Co., Chicago, Ill.

600,000 Mottled Finish Enameled Brick

MOULDED SHAPES FOR ENAMELED BRICK

Advice

ARCHITECTS, builders and owners who have not given it special thought, seldom realize the importance of a thorough knowledge of this subject, and the necessity for its careful consideration over the draughting board at the time the details of construction are conceived. Many have had to suffer delays resulting from failure on the part of manufacturers to successfully produce designs on time in strictly first quality, without crack or spall of any kind. This would have been obviated had they been able to take advantage of the long experience we have had in this one department of our business. Our experience dates

Experience

from 1894, when we began to successfully produce material equal to the imported product, which used to hold the market. It has taught us many points of great value, which guide us in the choice of special shapes along lines that will save builders delay and relieve us from the loss and humiliation of non-delivery at the time promised.

Crazes

In the following pages we have purposely avoided great variety of fancy ornamentation. Our bricks are not terra cotta with transparent surface glazes, nor enameled terra cotta, nor brick made by the dry process and enameled just before the second firing. They are enameled brick, made by the mud process in one fire, and as such they are free from the

Underglaze

underglaze, cracks and crazes, which are ever present on bricks made by other methods. Our special shapes are chosen with the idea of reducing to a minimum the danger of cracking and spalling of the irregular

Cracks

surfaces, caused by irregular shrinkage they produce in the body of brick.

Stock

Stock goods, such as stretchers and returns, offer no difficulties not easily overcome, since they are uniform surfaces with uniform strains. Special moulded shapes are always an enigma when untried, and frequently remain so, so far as the power of avoiding the troubles they give, although an explanation of the cause is usually easy to find. In casting of

Shapes

metals, re-entrant angles must be avoided if success is to be secured. So also (in clay enameled) are the combinations of some curves to be avoided, as radii of curved surfaces bear certain relations to other dimensions of the brick and to the internal stresses of the shrinking clay.

The following ten pages show designs that we recommend as being most satisfactory in manufacturing results, though we cannot guarantee that we will at no time have unsuccessful results in an effort to produce them. Pages 20 to 25 show some applications of these designs for general ornamental purposes. Follow these and save time, mutual expense and trouble. We try to keep a stock of these on hand, in standard colors and in English and American sizes.

We will try on orders of moderate size, or on larger orders, if ample time is given, to match in shade the moulded and stretcher stock on any order, but cannot always guarantee to uniformly shade shipments of specials.

N. B.—Uniform shading of stretchers and returns in first quality is our specialty.

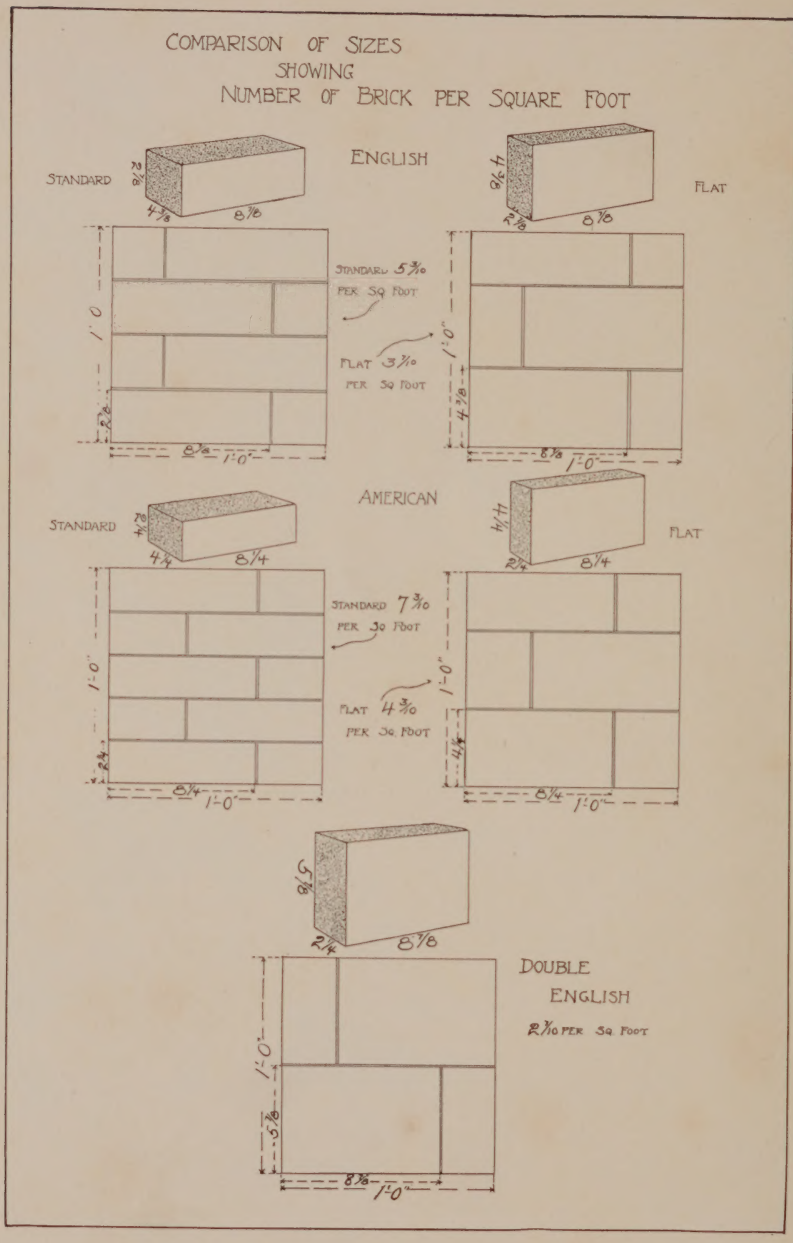
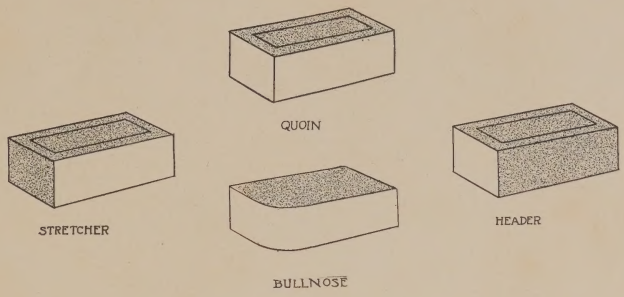


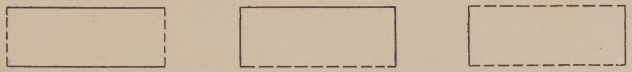
PLATE S.

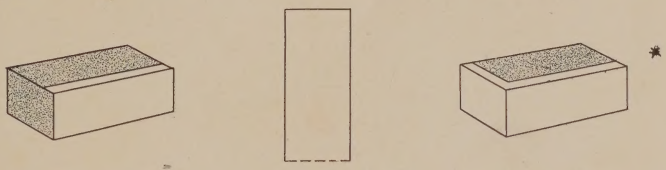
COMPARISON OF SIZES, SHOWING NUMBER OF BRICK PER SQUARE FOOT

And the dimensions of the brick in standard sizes made by us.

ILLUSTRATION OF TYPES







ALL OTHER BRICK LIPPED ON SPECIAL ORDER FOR CHANNEL WORK

CHAMFER AND OCTAGON

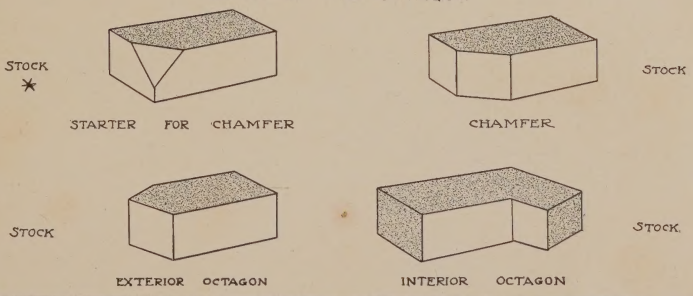
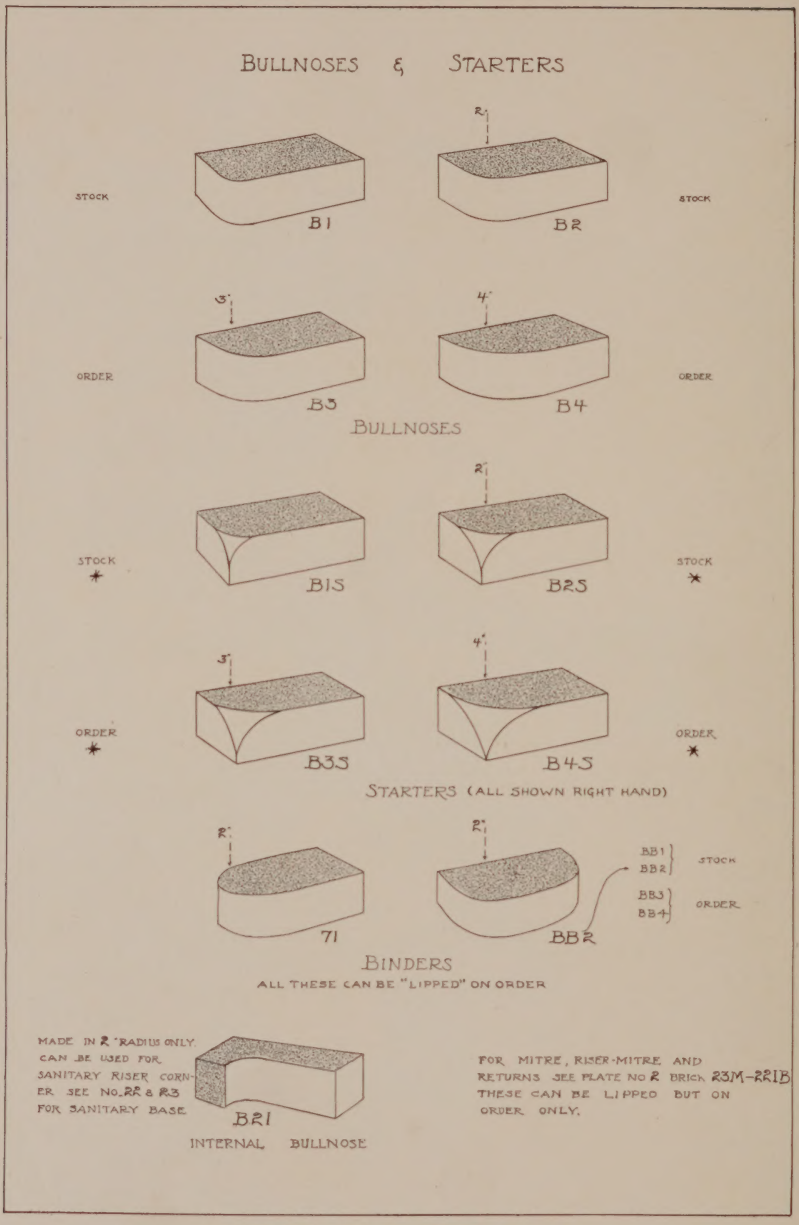


ILLUSTRATION OF TYPES—PLATE T.

REMARKS: * means made Right and Left (Not Reversible).

On Double Brick, shown above in Plan, solid lines represent faces enameled; dotted lines represent faces not enameled.



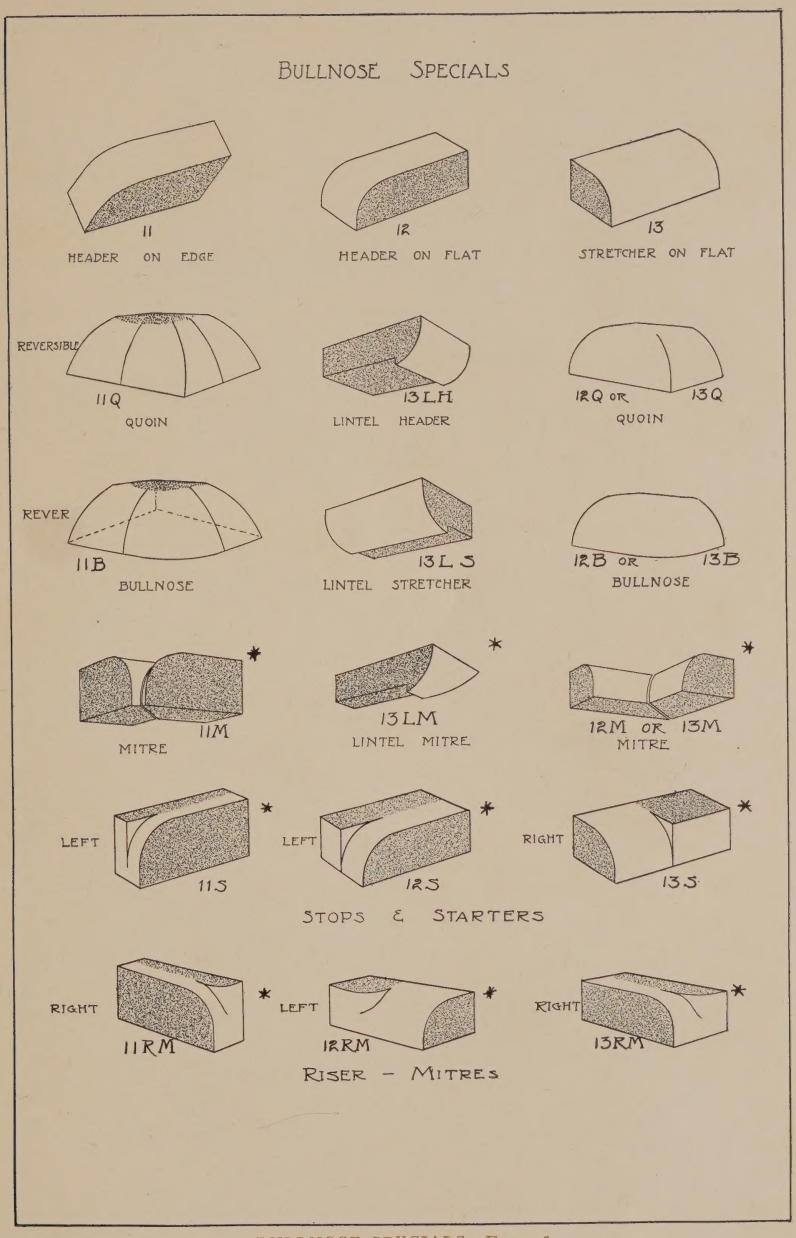
BULLNOSES AND STARTERS—PLATE B.

*Means made Right and Left (Not Reversible).

N. B.—By exposing the header end instead of the stretcher side, a right-hand starter will serve in left-hand position and vice versa; are made right and left, however.

NOMENCLATURE.

Letter B indicates Bullnose finish.
Numeral—1, 2, 3, 4 indicate Radii of Bullnose.
Exception—No. 71, which also belongs to, and is classified on, Plate 7.



BULLNOSE SPECIALS—Plate 1.

*Means made Right and Left (Not Reversible).

UNIT numeral indicates whether { Header bedded on edge—1. / Header bedded on flat—2. / Stretcher bedded on flat—3.

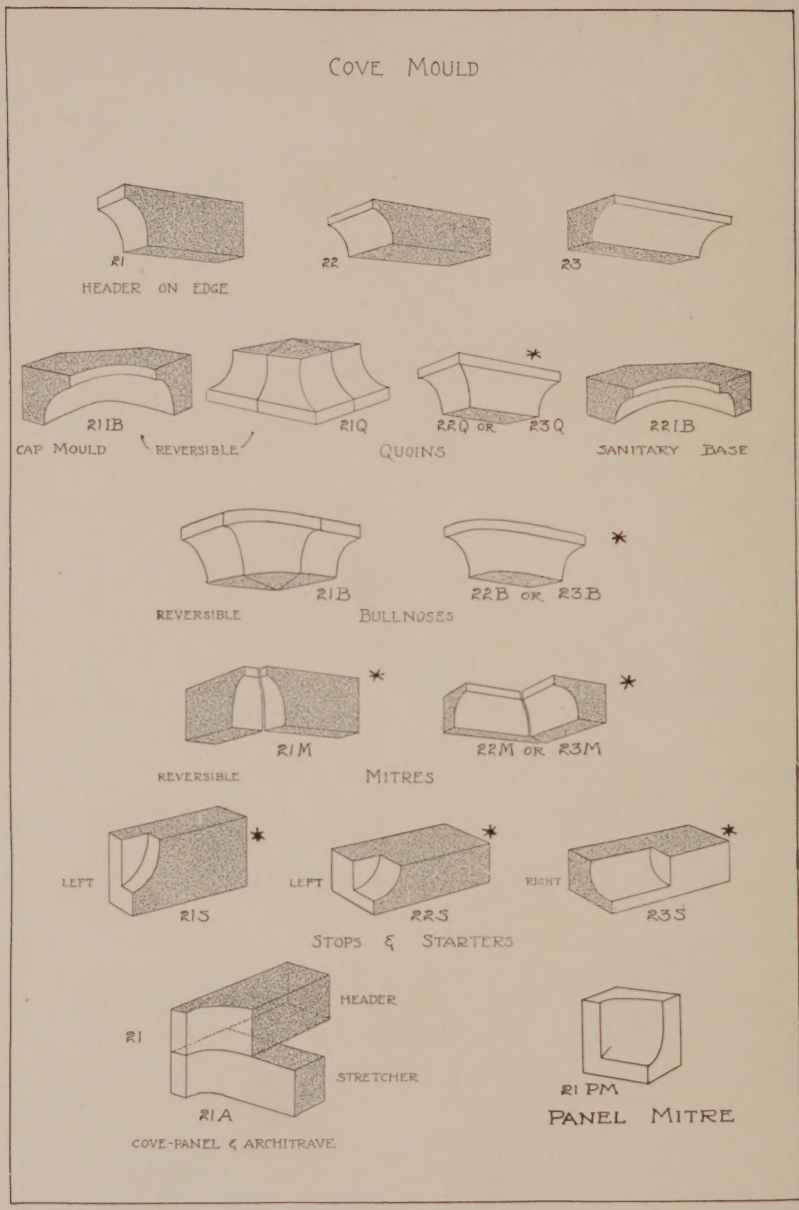
TENS numeral indicates shape of mould—11, 12, 13.

Initials indicate Quoin, Bullnose, Mitre, Stretcher, Stop, Riser, Mitre or Panel Mitre or Architrave.

All Rowlock Brick on left side of page.

SPECIAL.

13 LH, 13 LS, 13 LM are special forms for steel lintels covered with wooden trim.



COVE MOULD—PLATE 2.

*Means made Right and Left (Not Reversible).

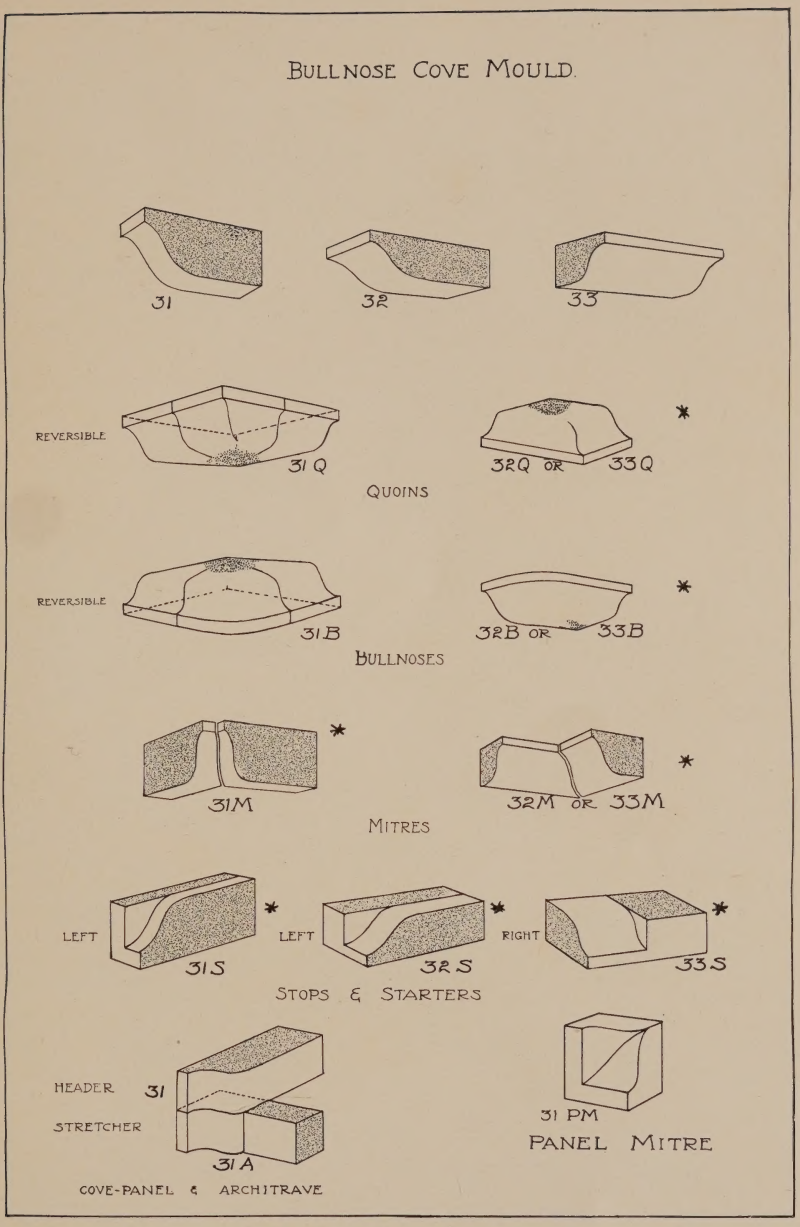
UNIT numeral indicates whether { Header bedded on edge—1. / Header bedded on flat—2. / Stretcher bedded on flat—3.

TENS numeral indicates shape of mould.

Initials indicate Quoin, Bullnose, Mitre, Starter, Stop, Riser, Mitre or Panel Mitre or Architrave.

All Rowlock Brick on left side of page excepting Architrave.

Two extra specials on this sheet, 21 IB for Rowlock and 22 IB for regular type, are furnished for use in connection with B 2 I and 21 and 22 and 23 to carry mould around a 2-inch radius internal bullnose corner. See illustration (Study of Corner of Plunge), page 24.



BULLNOSE COVE MOULD—PLATE 3.

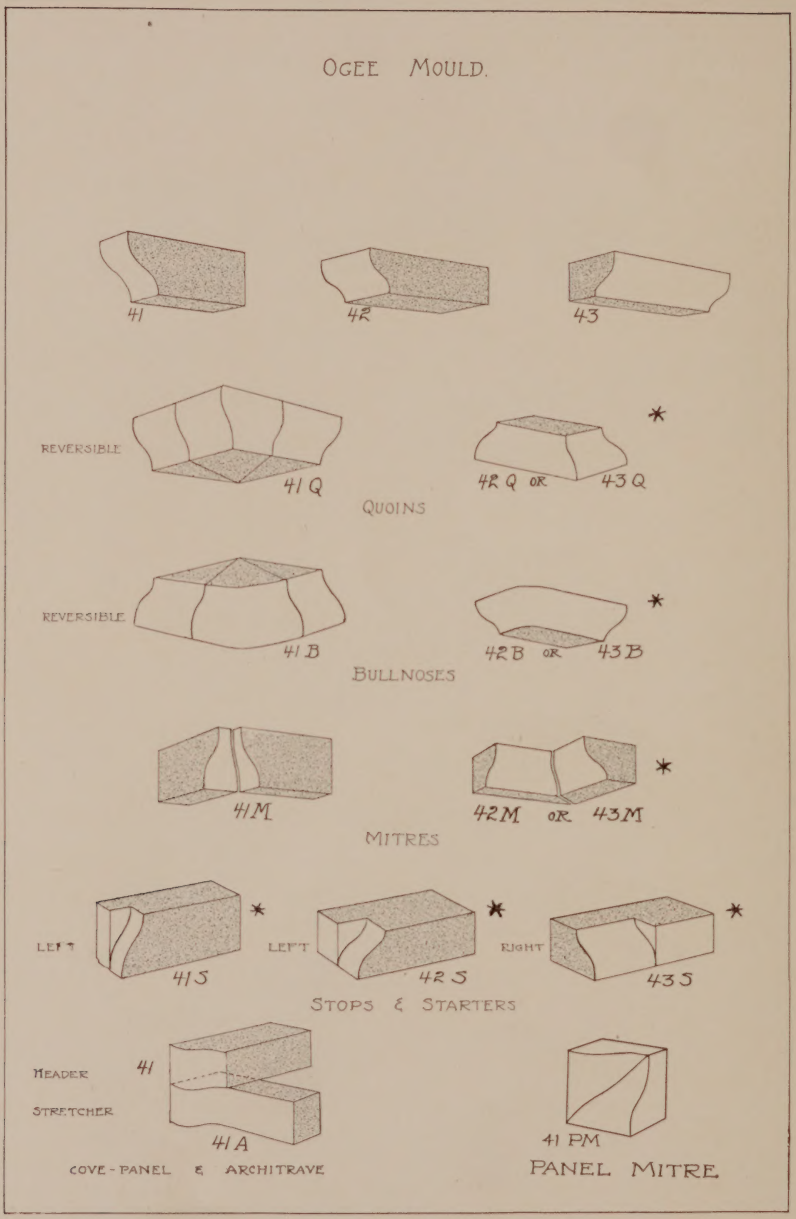
*Means made Right and Left (Not Reversible).

UNIT numeral indicates whether { Header bedded on edge—1. / Header bedded on flat—2. / Stretcher bedded on flat—3.

TENS numeral indicates shape of mould.

Initials indicate Quoin, Bullnose, Mitre, Starter, Stop, Riser, Mitre or Panel Mitre or Architrave.

All Rowlock Brick on left side of page excepting Architrave.



OGEE MOULD—Plate 4.

*Means made Right and Left (Not Reversible).

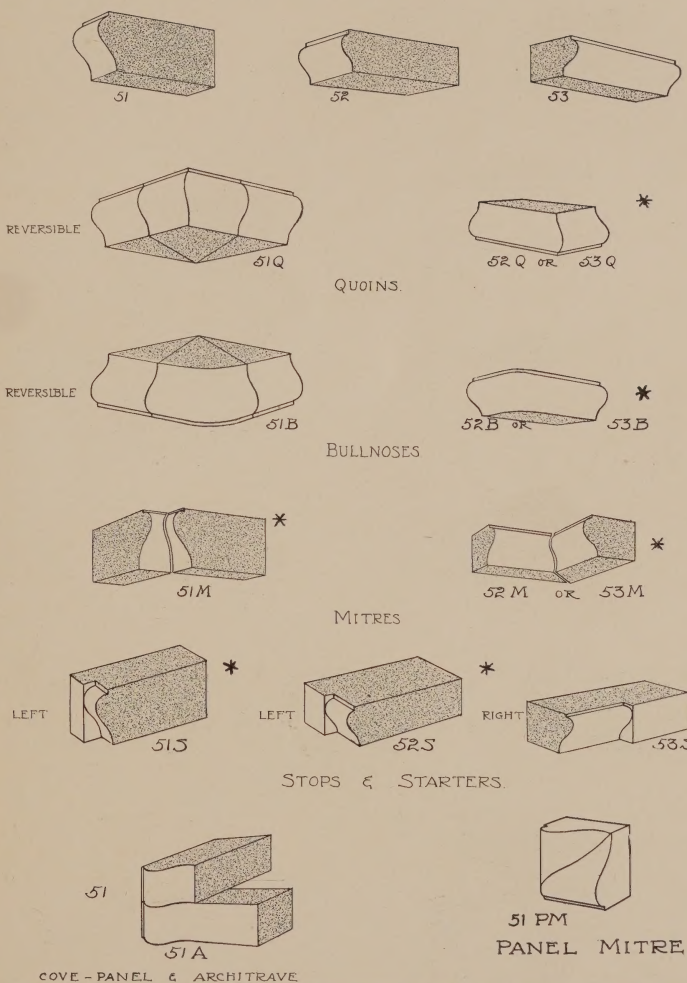
UNIT numeral indicates whether { Header bedded on edge—1. Header bedded on flat—2. Stretcher bedded on flat—3.

TENS numeral indicates shape of mould.

Initials indicate Quoin, Bullnose, Mitre, Starter, Stop, Riser, Mitre or Panel Mitre or Architrave.

All Rowlock Brick on left side of page excepting Architrave.

OGEE MOULD



OGEE MOULD—PLATE 5.

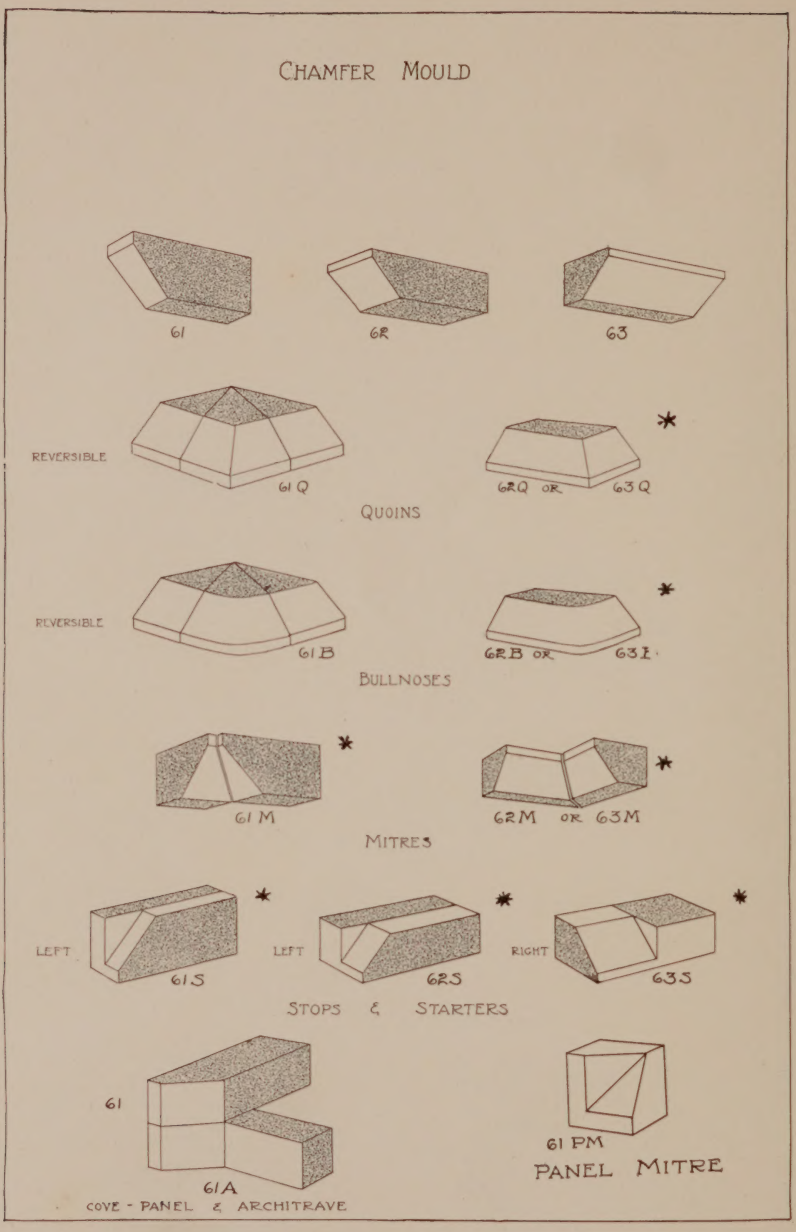
*Means made Right and Left (Not Reversible).

UNIT numeral indicates whether { Header bedded on edge—1. / Header bedded on flat—2. / Stretcher bedded on flat—3.

TENS numeral indicates shape of mould.

Initials indicate Quoin, Bullnose, Mitre, Starter, Stop, Riser, Mitre or Panel Mitre or Architrave.

All Rowlock Brick on left side of page excepting Architrave.



CHAMFER MOULD—Plate 6.

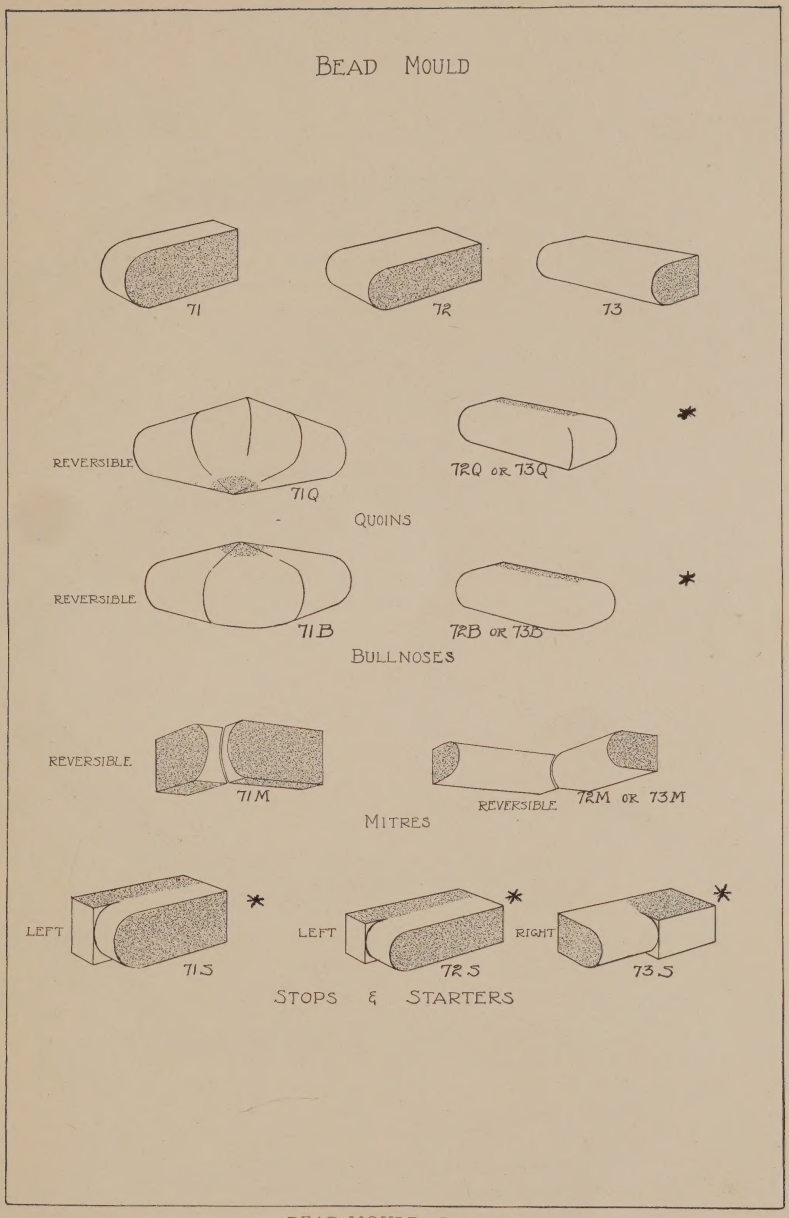
*Means made Right and Left (Not Reversible).

UNIT numeral indicates whether { Header bedded on edge—1. Header bedded on flat—2. Stretcher bedded on flat—3.

TENS numeral indicates shape of mould.

Initials indicate Quoin, Bullnose, Mitre, Starter, Stop, Riser, Mitre or Panel Mitre or Architrave.

All Rowlock Brick on left side of page excepting Architrave.



BEAD MOULD—Plate 7.

*Means made Right and Left (Not Reversible).

UNIT numeral indicates whether { Header bedded on edge—1. Header bedded on flat—2. Stretcher bedded on flat—3.

TENS numeral indicates shape of mould.

Initials indicate Quoin, Bullnose, Mitre, Starter, Stop, Riser, Mitre or Panel Mitre or Architrave.

All Rowlock Brick on left side of page excepting Architrave.

STUDIES OF APPLICATION OF SPECIAL SHAPES

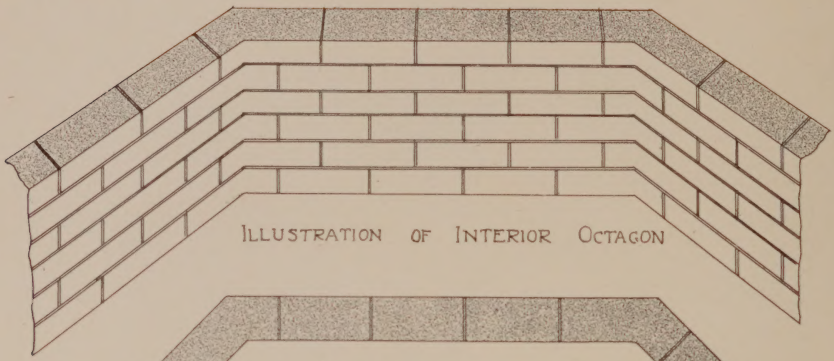
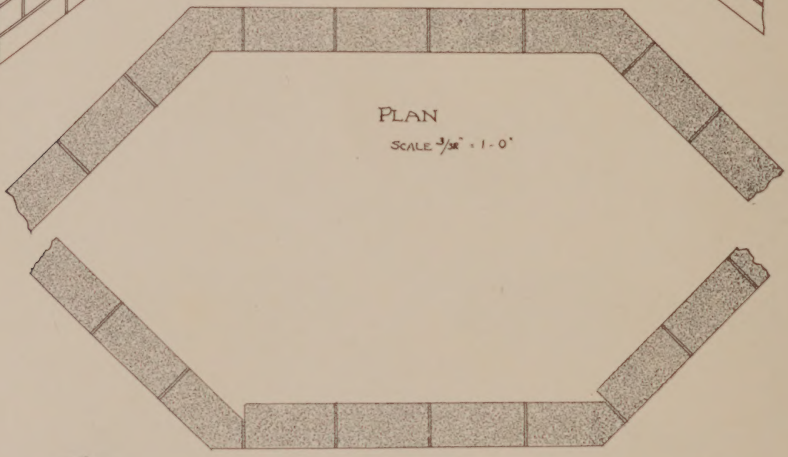


ILLUSTRATION OF INTERIOR OCTAGON



PLAN

SCALE 3/32" = 1'-0"

PLAN

SCALE 3/32" = 1'-0"

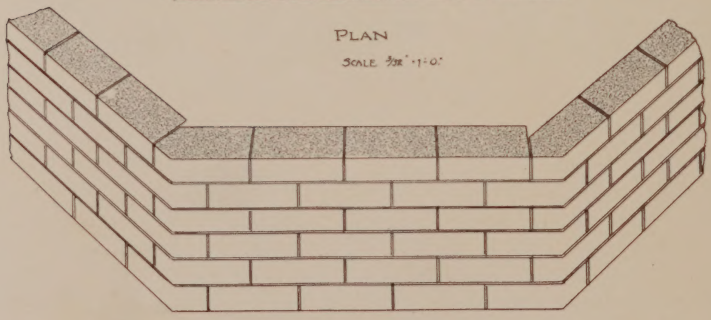
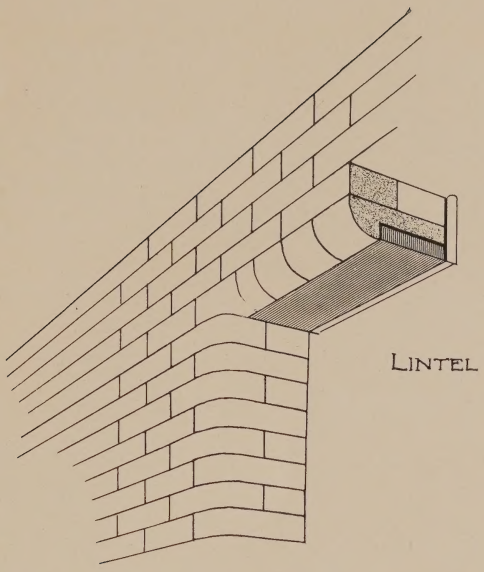
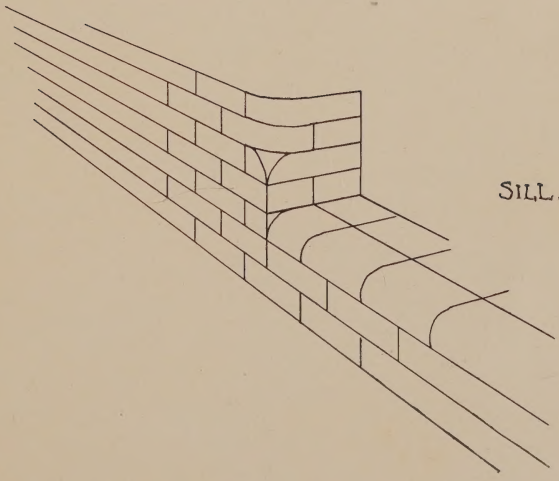
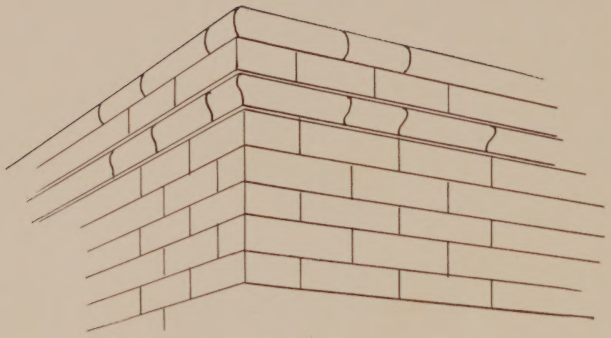


ILLUSTRATION OF EXTERIOR OCTAGON



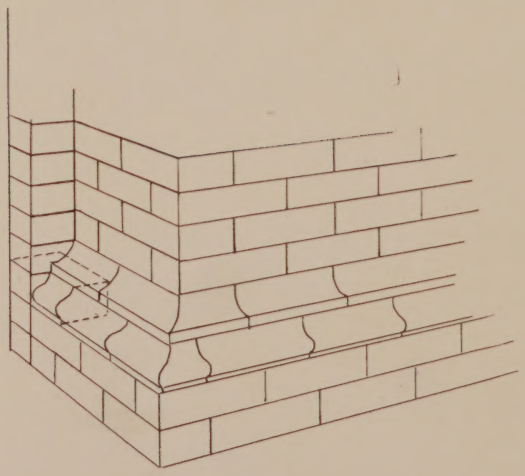
STUDY OF WINDOW OPENINGS.



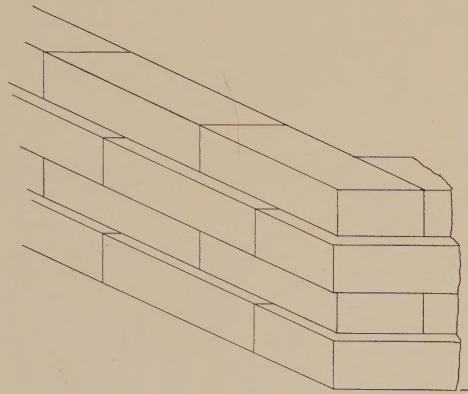


CAP COURSE

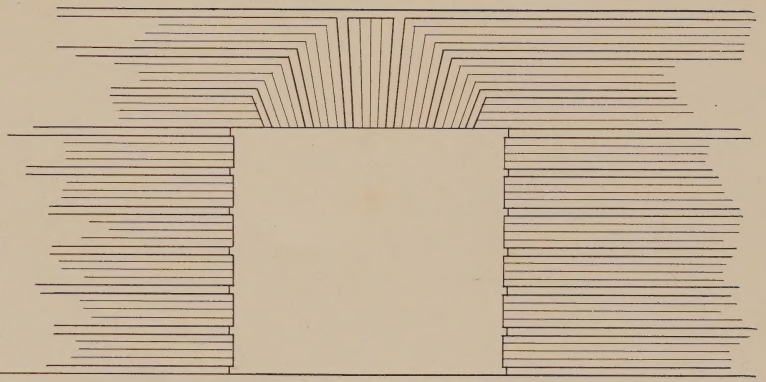
STUDY OF A WAINSCOT.



BASE COURSE

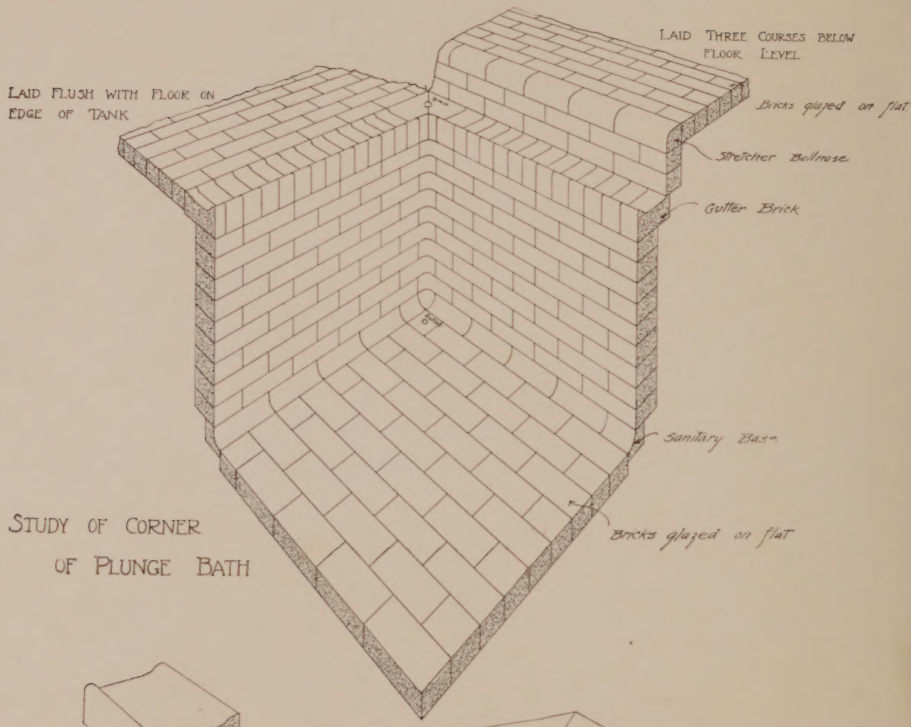


USE OF LIPPED BRICK FOR CHANNELING

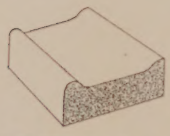


CHANNEL ARCH

DETAIL SHOWING GUTTER & LIFE RAIL

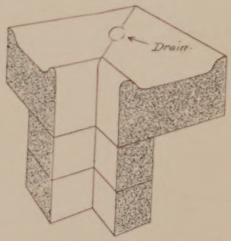

LAID THREE COURSES BELOW FLOOR LEVEL
LAID FLUSH WITH FLOOR ON EDGE OF TANK
Bricks glazed on flat
Stretcher Bullnose
Gutter Brick
Sanitary Base
Bricks glazed on flat

STUDY OF CORNER OF PLUNGE BATH

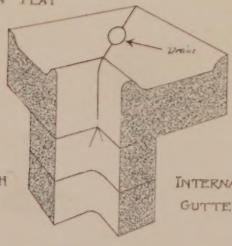


STRETCHER ON FLAT

QUOIN FINISH

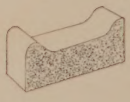


MITRED GUTTER BRICK



BULLNOSE FINISH

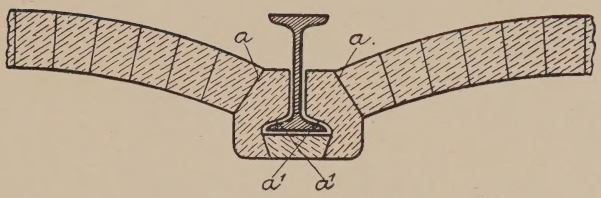
INTERNAL BULLNOSE "STOP" FOR GUTTER BRICK



HEADER ON EDGE

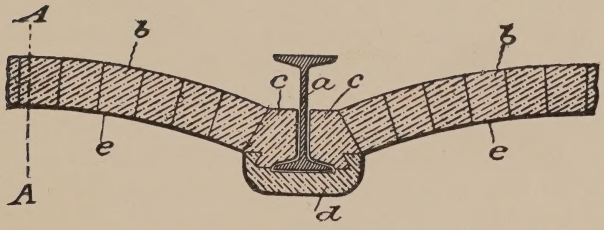
STUDY OF GUTTER BRICK

ENAMELED SKEW-BACK BEAM COVERS



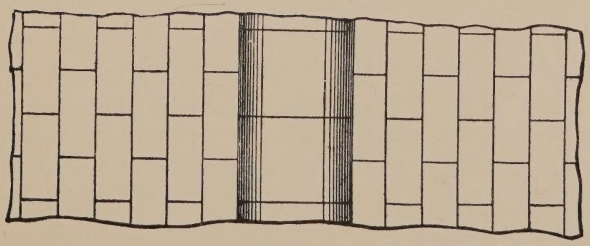
SECTION.

Design Patent, No. 33481.



SECTION.

Structural Patent, No. 674,089.



PLAN.

Design and Structural Patents for Enameled Beam Covers to Form Skew Backs for Arches Between Beams.

STANDARD SIZES ENAMELED BRICK

Name.	Dimensions.	Surface Enameled.	Brick required per □ foot of surface including joints.
English Size..... Standard	2⅞ x 8⅞ x 4⅜	2⅞ x 8⅞	5.33 Brick
English Size..... . Flatters	4⅜ x 8⅞ x 2⅞	4⅜ x 8⅞	3.55 Brick
Double English...	6 x 9 x 2¼	6 x 9	2.66 Brick
American Size..... Standard	2¼ x 8¼ x 4 1/16	2¼ x 8¼	7.24 Brick
American Size... . . Flatters	4 1/16 x 8¼ x 2¼	4 1/16 x 8¼	4.23 Brick

Made in any of our colors or shapes. Standard colors and moulded shapes held in stock in small quantity only.

DETAILS REQUIRED FOR ARCH BRICK

When ordering arches please consult the following pages and give all necessary information as to details. Furnish details as long as possible in advance of time the arches will be required. We should be allowed from three to six weeks' time to make up Arch Brick. Arch Brick should be made to order to secure satisfactory work. We keep no standard arches in stock. We cannot always guarantee uniformity of shade in arches as in regular deliveries of first-quality plain stock brick.

YOU SEND SCALE BLUE PRINTS— WE DO THE REST, VIZ.

We make full-size working drawings (shrinkage scale).

We mark drawing so that each different brick has its own designating letter or number in arch, and make typewritten schedules.

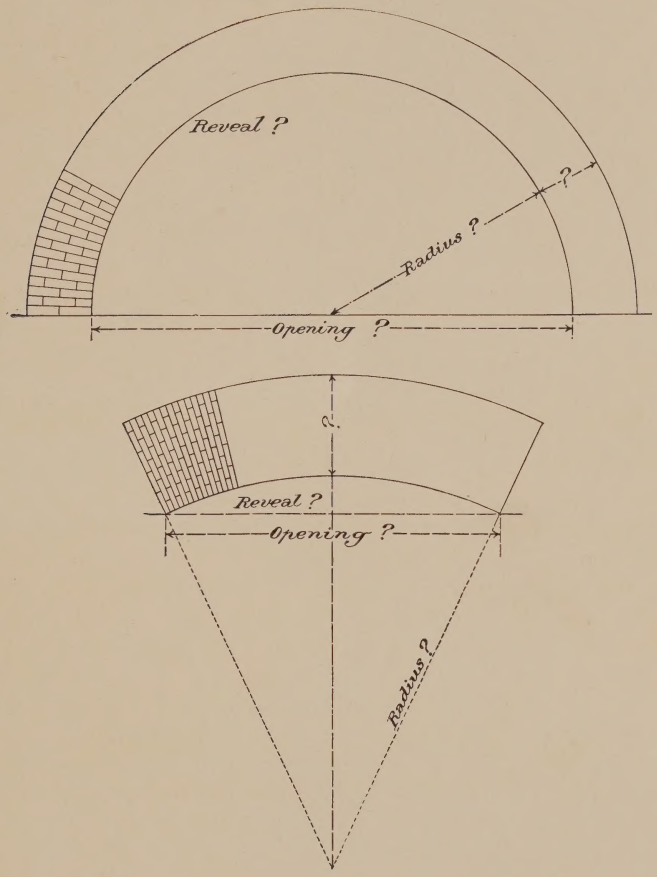
We make every brick as per drawing, each brick marked with designating letter or number as per schedule and drawing.

We ship you copy of drawing and schedule with the brick to serve as guide in setting. The mason should lay each brick on its place on drawing before attempting to set the arch.

We pack arches separately in barrels, and mark barrels distinctly to avoid confusion at job.

What Can Be Simpler for You?

SEMI-CIRCULAR AND SEGMENT ARCHES



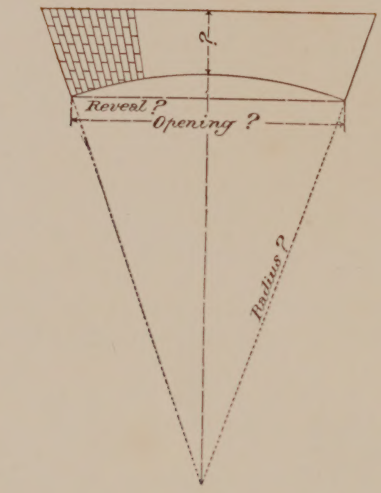
WE CAN MAKE THESE WITH MOULDED REVEALS

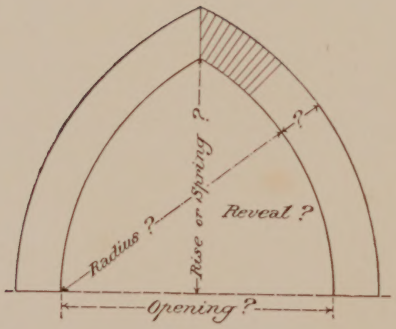
Give the Following Details:

Width of opening. Radius. Depth of reveal or soffit. Height of face; give inches if laid with cut stone in skew-back; give number of courses if laid with bricks in skew-back. If on piers, give width of pier.

SEGMENT AND GOTHIC ARCHES

(SEGMENT ARCHES WITH FLAT TOPS)





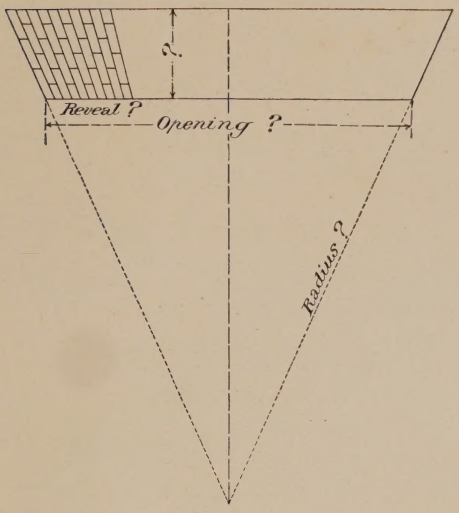
WE CAN MAKE THESE WITH MOULDED REVEALS

Gothic arches will be made to one radius, as above, unless otherwise specified.

Give the Following Details:

Width of opening. Radius. Depth of reveal. Height of face; give inches if laid with cut stone in skew-back; give number of courses if laid with bricks in skew-back. If on piers, give width of pier. If Segment arch, give rise or spring of arch.

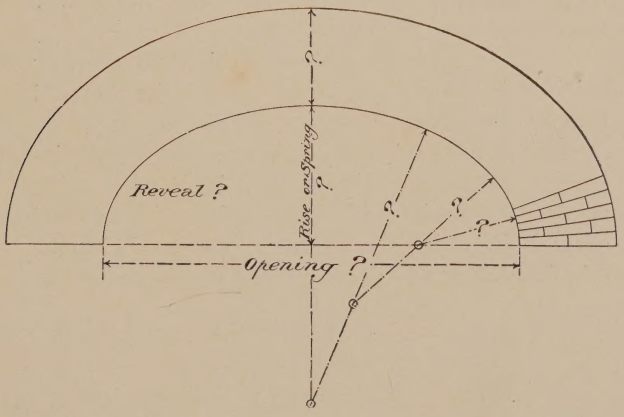
FLAT, AND ELLIPTIC OR THREE-CENTERED ARCHES



Give the Following Details:

Width of opening. Radius. Depth of reveal. Height of face; give inches if laid with cut stone in skew-back; give number of courses if laid with bricks in skew-back. If on piers, give width of pier.

FLAT ARCHES CANNOT BE MADE WITH MOULDED REVEALS



WE CAN MAKE THESE WITH MOULDED REVEALS

Give the Following Details:

Width of opening. Each of the three radii. Rise or spring of arch. Depth of reveal. Height of face. If on piers, give width of pier.

CLASSIFIED LIST OF BUILDINGS FURNISHED BY US WITH ENAMELED BRICK UP TO JULY 1, 1904

When inspecting the comparatively few buildings enumerated on the list, especially those quoted as first-quality goods, architects, builders and owners should bear in mind the fact that a few years ago no manufacturer of enameled brick shaded his deliveries for first quality so as to avoid the checkerboard effect still apparent in the first-quality deliveries of some manufacturers. THE AMERICAN ENAMELED BRICK AND TILE COMPANY was the first to sort all first-quality deliveries with reference to shade in each color so as to avoid this effect, which is disagreeable to the eye, and we are the ONLY MANUFACTURERS WHO GUARANTEE IT IN WRITING TO-DAY IN ALL FIRST-QUALITY DELIVERIES.

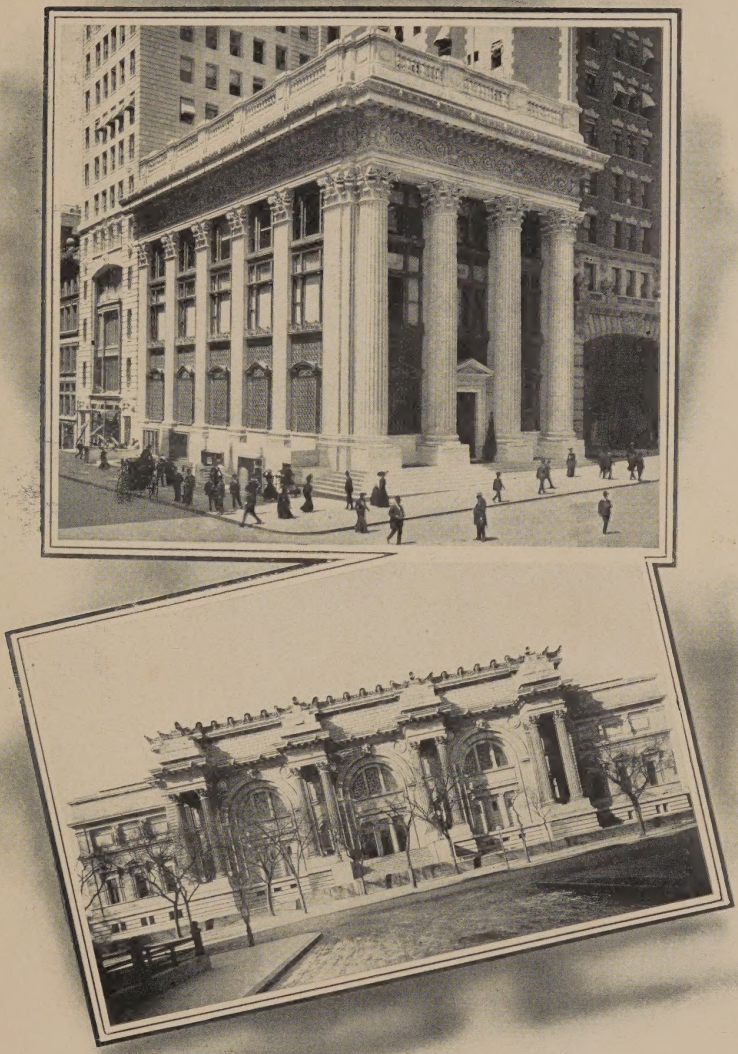
Our best card and reply to architects, owners or builders is to request them to look this list over and then at the jobs themselves—which have stood all the way from 1893 to date; but we request the investigator always to be sure that he is not looking at a second-quality job with a variety of shade and other faults which are, of course, present, before he criticizes it as a sample of our best work.

AMERICAN ENAMELED BRICK
AND TILE COMPANY.

SUMMARY OF CLASSIFIED LIST

No.	JOBS	1st Quality	2d Quality
63	Public Office Buildings, Banks, Libraries, Halls and Theatres, . . .	1,801,894	150,145
45	Private Residences, ...	821,055	70,300
25	U. S. Government, ...	500,589	92,210
13	Cemeteries, Vaults, Tombs and Greenhouses, ...	24,200	3,200
54	Athletic Clubs, Clubs, Universities, College and School Buildings, .	494,250	458,500
25	Hotels, Apartments, Restaurants and Supply Stores, ...	582,225	63,200
48	Pumping Stations and Power Houses	802,933	917,650
16	Natatorium Swimming Pools and Comfort Stations, ...	169,800	33,500
25	Hospitals, Asylums, Homes, . . .	730,940	70,000
28	Private Stables, ...	280,215	102,800
18	Railroad Stations and Subways, .	740,625	130,000
32	Mills and Factories, ...	230,390	1,016,050
10	Police Stations and Fire Houses, .	98,300	25,000
402	Total 1st, .	7,277,416	3,132,555
	" 2d, .	3,132,555	
	Total, . .	10,409,971	

NAME OF BUILDING.	CITY.	ARCHITECT.	BUILDER.	1ST QL	2D QL.
Mutual Life.	Philadelphia.	Roose & Booraem.	J. E. & A. L. Pennock.	100,000	
Real Estate & Trust Co. Building.	Philadelphia.	Edgar V. Seeler.	N. B. Chapman.	300,000	
Conn. Mutual Life Building.	Hartford, Conn.	Ernest T. Flagg.	Dawson & Archer.	125,000	
S. S. White Dental Association uilding.	Philadelphia.	David Knickerbocker Boyd.	N. B. Chapman.	100,000	
Bank of Montreal.	Montreal, Can.	Taylor & Gordon.	Norcross Bros.	150,000	
Bowling Green Building.	New York.	W. & S. Audsley.	Standard Structural Co.	75,000	
Altman Building.	New York.	Kimball & Thompson.	M. Eidlitz & Son. Chas. Sooy Smith & Co.	50,000	
Stillings Building, Boston Wharf Co.	Boston.	Morton D. Stafford.	Edward A. Abbott.	40,000	
American Bell Tel. Building	Boston.	Peabody & Stearns.	Woodbury & Leighton	35,000	
Wadsworth Building.	New York.	Youngs, Bergenson & Cornell.	Robinson & Wallace.	25,000	
Nassau Trust Co. Building.	Brooklyn, N. Y.	Johnson & Helme.	W. & T. Lamb.	15,000	
Mechanics National Bank.	Brooklyn.	Johnson & Helme.	W. & T. Lamb.	15,000	
Hecht Building.	Boston.	Weisbein & Jones.	W. A. & H. A. Root.	10,000	35,000
Constable Building.	New York.	Schickel & Ditmars.	Marc Eidlitz & Son.	10,000	
Spier Building.	24½ Pine Street, New York.	Warren & Wetmore.	I. A. Hopper & Son.	10,000	
N. Y. Tel. Co. Building.	18 Cortlandt St.		Edge Moore Iron Works.	5,800	
Union Market Nat. Bank.	Watertown, Mass.	Chas. Brigham.	A. . Murdough.	3,000	
Gerkin Building.	Chambers St. and W. Broadway.		P. J. Carlin & Co.	2,400	
Town Hall, Brookline.	Boston.	Wm. Gibbons Preston.	Johnson Bros.	40,000	
Bank at Hockelaga.	Montreal, Can.	A. Raza.	O. D. Dequise.	2,000	
Weldon National Bank.	St. Albans, Vt.	W. R. B. Wilcox.	Thos. W. Rodgers.	1,400	
Home National Bank.	Holyoke, Mass.		Daniel O'Connell's Sons.	1,400	
National Exchange Bank.	Providence, R. I.			1,300	
Newton National Bank.	Newton, Mass.	Wm. Gibbons Preston.	H. F. Ross Co.	500	
Boston Confectionery Trust Co.'s Building.		Morton D. Stafford.	Mack Bros.	1,500	
Walpole Public Library.	Walpole, Mass.	J. Lawrence Berry.	H. P. Cummings Co.		5,000
State Mutual Life Insurance Co.		Andrews, Jacques & Rantoul.	Norcross Bros. Co,	21,000	52,000
Lyceum Theatre.	New York.	Jardine, Kent & Jardine.	List & Lennon.	5,000	
German Savings Bank.	New York.	Schickel & Ditmars.	John Weber & Sons,	4,000	
Woodward & Lothrop Dept. Store.	Washington, D.C.	Henry Ives Cobbs.	Samuel Edmonston,	16,000	
Citizens' Bank.	Baltimore, Md.		Evans Marble Co.	2,000	
International Investment Co.	Washington, D.C.	Merrill T. Vaughn.	Owner, Col. Theo. W. Tyrer.	7,000	
Woodward & Lothrop Dept. Store Boiler Rooms.	Washington, D.C.	Henry Ives Cobbs.	Casey & Long.	4,000	
N. Y. Board of Health Building.	New York City.	J. H. Hamilton & Mesreau.	Robert R. Fox.	2,300	
Union Trust & Storage.	Washington, D.C.	Marsh & Peter.	Richardson & Burgess.	3,260	
National Savings and New York State Bank.	Albany, N. Y.	Marcus T. Reynolds.	M. L. Ryder ldg. Co.	24,000	
Lowy Building.	Bruce St., Newark, N. J.	N. Myers.	Patrick Bros.	5,000	
Wagner Building.	10th St., N. Y.		A. Schumacher.	12,000	
Proctor's Theatre.	Newark, N. J.	J. R. McElfatrick.	W. H. Connolly.	20,000	
Gerard Building.	3d and Chestnut Sts., Phila, Pa.	John T. Windrum.	W. A. & A. E. Wells.	20,000	
Bank of Lambertville.	Lambertville, N. J.	Schermerhorn & Phipps.	Geo. W. Arnett.	1,500	
Chauncy Street Building.	Boston.	Lockwood, Greene & Co., Engs.	Frank B. Gilbreth.	6,280	
City Hall.	Woonsocket, R. I.	F. H. Mills, Eng.	Alfred Daignault.	6,300	
State Mutual Building.	Boston.	Andrews, Jacques & Rantoul.	Norcross Bros. Company.	46,000	47,000
Waltham Savings Bank.	Waltham.	Hartwell, Richardson & Driver.	Lord Brothers.	1,300	
Main Street Building.	Fall River, Mass.	James M. Darling.	John Crowe.	1,500	
Holyoke Savings Bank.	Holyoke, Mass.	James A. Clough.	D. O'Connell's Sons.	2,205	1,900
People's Savings Bank.	Holyoke, Mass.	James A. Clough.	D. O'Connell's Sons.	2,700	
Citizens' National Bank.	Washington, D.C.	Remodeling.	George Hughes.	1,799	
Thomas & Bull Buildings.	Columbus, Ohio.	Stribling & Lunn.	F. M. Farnoff.	27,000	
United Savings Bank.	Cleveland, Ohio.	Lehman & Schmitt.	Hunken Brothers.	15,000	
Second National Bank.	Atlantic City, N.J.	A. Hudson Vaughn.	W. Beaumont.	2,400	
Wanamaker Dept. Store Extension.	8th St. and 4th Ave., New York.	D. H. Burnham & Co.	John Griffiths & Son.	7,400	
Strawbridge & Clothier Dept. Store.	8th and Market Sts., Phila., Pa.	Addison Hutton.	F. M. Harris & Co.	13,000	
Mercantile Library.	Cincinnati, Ohio.	Joseph Steinkamp & Brother.	Thos. Emery's Sons.		8,000
Broadway Savings Bank.	Lawrence, Mass.	G. G. Adams.	L. E. Locke.	2,850	

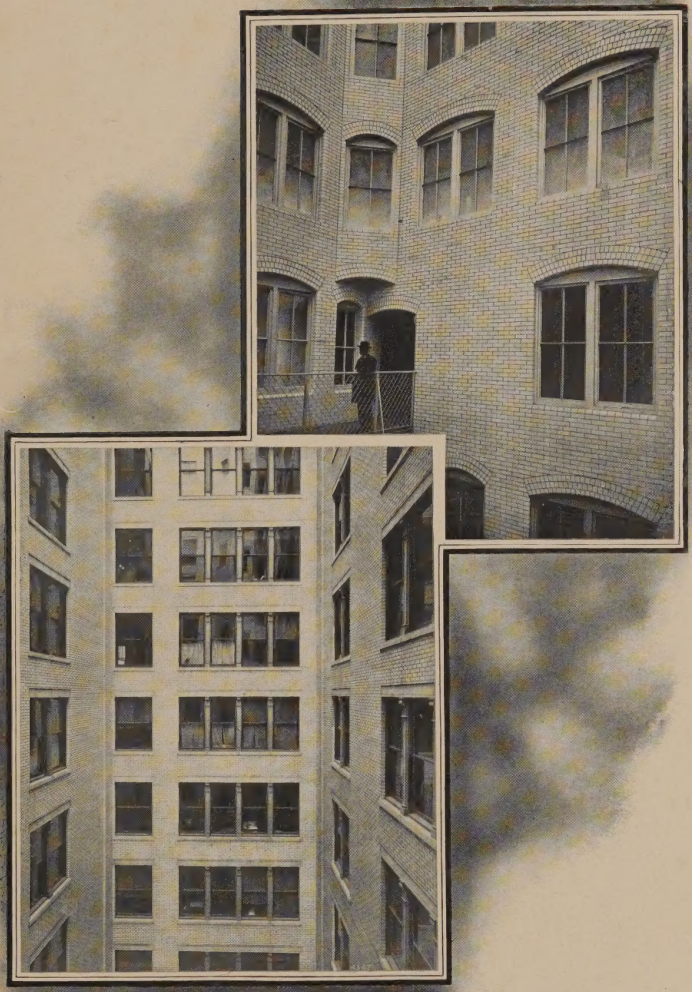


KNICKERBOCKER TRUST CO.'S BUILDING, Fifth avenue and 34th street, New York.
METROPOLITAN MUSEUM OF ART, Central Park, New York.
Architects, Hunt & Hunt. Builder, Thomas Dwyer.

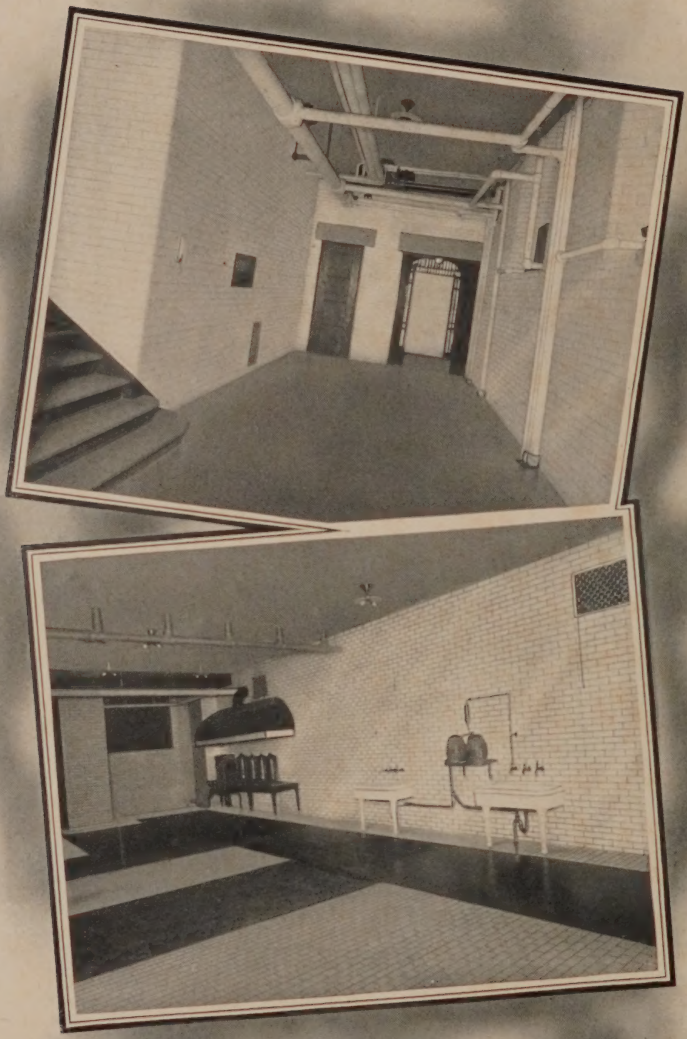
UNION CLUB, Fifth avenue and 51st street, New York.
Architect, John Du Fais. Builders, Geo. A. Fuller Co.
All Second-Quality Enameled Brick.

BOWLING GREEN BUILDING, New York. 150,000 Seconds.

EXTERIOR USE—Light Shafts



STILLINGS BUILDING, Boston, Mass.
Owner, Boston Wharf Co. Architect, Morton B. Safford. General contractor, Edward A. Abbott.
40,000 First-Quality Enameled Brick in LIGHT SHAFT.
REAL ESTATE & TRUST CO.'S BUILDING LIGHT SHAFT, Philadelphia, Pa.
Architect, Edgar V. Seeler. Mason, Wm. R. Chapman.
300,000 White Brick, English Size.



BANK OF MONTREAL, Canada.

Architects, Taylor & Gordon. Builders, The Norcross Bros. Co., Worcester, Mass.
Quantity, 150,000 Enameled Brick; first quality in vaults and cellar.
Top—Entrance to Vaults.
Bottom—Kitchen for Employees—meal service.

EXTERIOR USE—On Fronts

BROOME AND MULBERRY STREETS, New York City. 40,000 Seconds.
R. G. DUN BUILDING, New York City. 300,000 Brick.

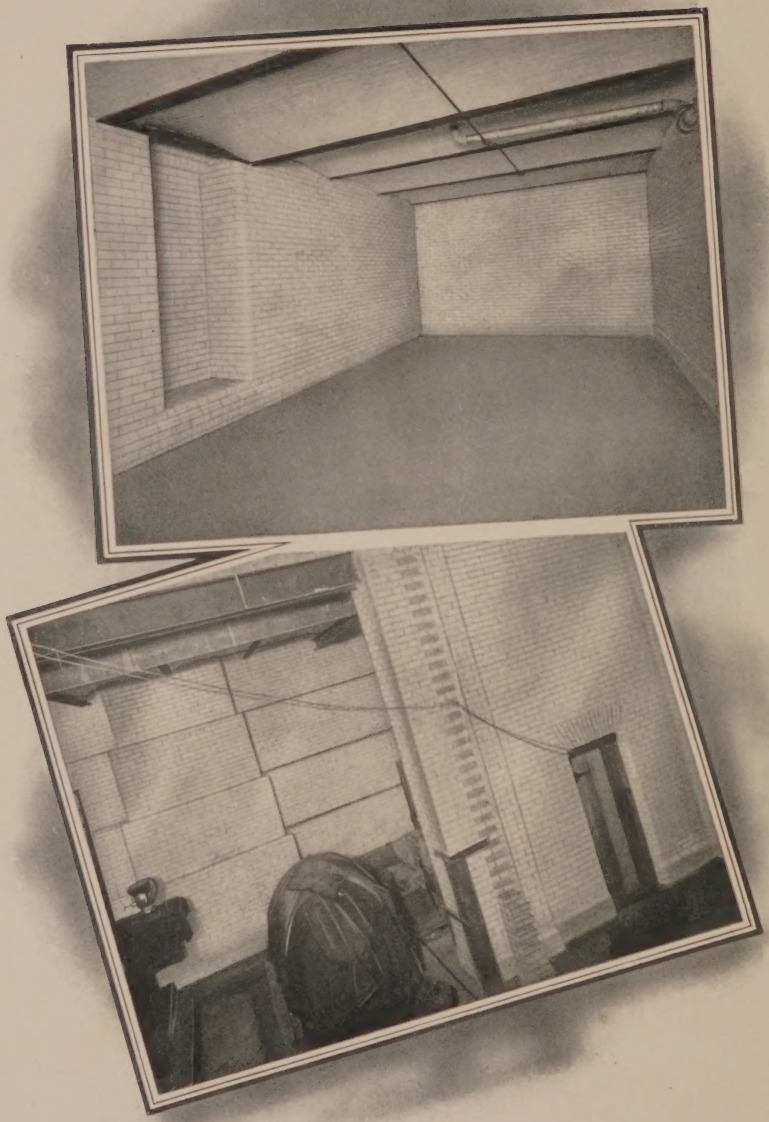
PUBLIC OFFICE BUILDINGS, BANKS, LIBRARIES, HALLS AND THEATRES (*Cont'd*)

NAME OF BUILDING.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Murphy Building.	Sheridan, Pa.	Wm. Wolfshafer.	Busse & Co.		1,245
Frick Building.	Pittsburg, Pa.			1,000	
N. P. Murphy Building.	Punxsutawney, Pa.		Hyde-Murphy Co.	8,800	
Minifie Building.	San Francisco, Cal.	Henry W. Myers and Clarence R. Ward.	Wendering.		
Sovereign Bank Building.	Montreal, Can.	H. C. Stone.	Chas. Thackeray & Co.	25,000	
Wenger, Knapp & Clark Building.	San Jose, Cal.	Wolfe & McKenzie.	E. F. Smith.	15,000	
Rockefeller Building.	Cleveland, O.		Thompson-Starrett Co.	350,000	
Total number of first quality brick				1,801,894	
Total number of second quality brick					150,145

PRIVATE RESIDENCES

OWNER.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Senator W. A. Clark.	77th St. and 5th Ave., N. Y.	Lord, Hewlett & Hull, Wash. Hull.	Thomas J. Reilly.	175,000	
Hon. Randolph Guggenheimer.	73d St. and 5th Ave., N. Y.	R. Maynicke.	Marc Eidlitz & Son.	100,000	
Chas. N. Schwab.	73d-74th Sts. and Riverside Drive.	Maurice Hebert.	Geo. Vassar's Son & Co.	200,000	
M. Proctor.	17 E. 52d St., N. Y.		Baumgarten & Co.		
Eugene Renal.	White Plains, N. Y.	Don. Barber.	Fountain & Choate.		40,000
Hon. Whitelaw Reid's "Ophir Farm."	Portchester, N. Y.	McKim, Mead & White.	Fountain & Choate.	27,000	
Jos. Carey.	Winsted, Conn.		W. Thourvard.	60,000	
J. E. Whittemore.	Naugatuck, Conn.			7,600	
Chas. E. Reilley (Conservatory).	Newton, Mass.			5,000	
Ex-Gov. Lippett.	Newport, R. I.	H. T. Robertson.	H. F. Ross.	2,000	
Oelrich's Residence.	Newport, R. I.	McKim, Mead & White.	Maguire & Penniman.	5,000	
Chilton House.	Bar Harbor, Me.	A. W. Longfellow.	Norcross Bros.		25,000
Frank E. Peabody, Residence.	Boston.	Peabody & Stearns.	J. H. Buttiner.	1,000	
Mrs. Geo. Westinghouse.	Lenox, Mass.		McNeill Bros.	3,500	
Prescott Hall Butler.	St. James, L. I.	Hoppin & Koen.	M. L. Ryder Building Co.	25,000	
Hon. Chas. G. Washburn, Laundry.	Worcester, Mass.	Rochester & Wright.		2,000	
Jas. Ross, Conservatory.	Montreal, Can.		Jos. G. Vandreuil, Worcester.	4,800	
Ryan Residence.	Suffern, N. Y.			1,700	
Webb Ho ton.	Middletown, N. Y.	J. F. Lindsey.		16,000	
"Castle-gould" Barn, Howard Gould's Estate.	Pt. Washington, L. I.	J. C. Udall.	J. F. Lindsey.	12,000	
John Murray Mitchell.	Tuxedo Park.	Clinton & Russell.	J. C. Udall.	41,000	
A. V. C. Genny.	Asbury Park.		J. Dall.	2,000	
Chas. G. Rice.	Ipswich, Mass.	W. G. Rantoul.			3,600
Mr. Wheeler.	Orange, Mass.	Fuller & Delano.	J. W. Bishop Co.	12,000	
U. S. Senator Aldrich.	Providence, R. I.	Stone, Carpenter & Wilson.	Jos. G. Vandreuil.	9,550	
Anson Phelps Stokes.	Noroton, Conn.	Howell & Stokes.	Cull & Williams.	2,300	
Private Dwelling.	Fairmont Ave.	E. W. Wurth.	A. R. Whitney, Jr., & Co.	7,000	
Private Dwelling.	N. Arlington Ave. East Orange.	W. G. Lawrence.	A. Schumacher.	2,000	
William Watts Sherman.	Newport.	Dudley Newton.	Garner & Sempier.	1,000	
Marsden J. Perry.	Providence.	Stone, Carpenter & Wilson.	Maguire & Penniman.	8,000	
Mr. Glidden.	Lowell.			4,000	
Geo. B. Upham.	Warren.	Smith & Biscoe.	W. S. Edwards.	450	
Henry E. Jones.	Riverside, Conn.	Petit & Green.	W. L. Rutan.		800
Mrs. Wm. H. Pollock.	Pittsfield, Mass.	Harding & Seaver.	Maxson & Co.		1,500
J. A. Chisholm.	Washington.	Hornblower & Marshall.	James C. Dodge.	3,600	
J. B. Hartman.	Columbus, Ohio.	H. A Linthwait.	R. H. Sorrel.	475	
Knapp Residence.	Islip, L. I.	Lienau & Nash.	J. E. Snider.	7,000	
H. H. Vreeland.	Brewsters, N. Y.		John V. Schaefer, Jr.	1,300	
J. McDermott.	St. James, L. I.		M. Reid & Co.	1,200	
Walter P. Bliss.	Bernardsville, N. J.	Hiss & Weeks.	E. Bradley-Currier Co.	2,000	
Mrs. N. J. Bradbury.	285 Commonwealth Av., Boston, Mass.	Winslow & Bigelow.	J. E. Aldrich.	29,000	
M. F. Plant, Residence (Boiler Front).	Groton, Conn.		Johnson Bros.	1,600	
Bayne House,	White Plains, N. Y.		Norcross Bros. Co.	3,300	
Mrs. Ryan's Residence.	Suffern, N. Y.	Schickel & Ditmars.	E. E. Paul.	4,300	
Est. Fred'k A. Potts.	40 E. 40th St., N. Y.	S. Edson Gage.	Mead & Taft.	17,380	
			J. F. DeBaun.	13,000	
Total number of first quality brick				321,055	
Total number of second quality brick					70,300

RESIDENCE OF CHARLES M. SCHWAB, Riverside Drive, New York City.
ROOF GARDEN.
BARREL ARCH UNDER STOOP.



RESIDENCE OF CHARLES M. SCHWAB.

Wine Cellar and Bottling Department. Dynamo and Engine Room.

U. S. GOVERNMENT

NAME OF BUILDING.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
U. S. Government P. O.	Paterson, N. J.	Supervising Arch't, J. K. Taylor.	McIllvane & Unkifer.	50,000	
Power House, Charlestown Navy Yard.	Boston, Mass.	U. S. Engineer, Frank O. Maxon.	Woodbury & Leighton.		20,000
U. S. Naval Hospital.	Chelsea, Mass.	U. S. Engineer, Frank O. Maxon	C. H. Dodge Const. Co.	10,000	
Dry Dock, Portsmouth Navy Yard.	Portsmouth, N. H.	U. S. Engineers.	John Pierce.	40,000	
Fort Banks.	Winthrop, Mass.	U. S. Engineer, Col. Chas. R. Suter.			5,000
Fort Baker.	San Francisco, Cal.	U. S. C. Engineer, Col. Handbury.		4,000	
Fort Strong.	Boston Harbor.	U. S. Engineer, Col. Chas. R. Suter.		3,000	
Fort Health.	Boston Harbor.	U. S. Engineer, Col. Chas. R. Suter.		3,000	
Trumbull St. Pumping Station.	Washington, D. C.	Henry Brauns.	Geo. A. Fuller Co.	125 000	
Brooklyn Navy Yard.		Naval Constructor Bowles.		21,000	
Charleston Navy Yard.	Charleston,	U. S. Engineers.	O'Brien, Sheehan, Perkins & McHale.	39,000	
Maryland State Building,	Annapolis, Md.	Baldwin & Pennington.	Hy. Smith & Sons.	69,500	
Court of Appeals.	Newport, R. I.				4,000
Mess Hall, West Point.	West Point, N. Y.	Gov. Engineers.	Fidelity & Deposit Co., A. S. Traub.	9,000	
Bureau of Standards.	Washington, D. C.	James Knox Taylor, Superv. Arch.	Pavarini & Greer, bild., W. C. Freeman, mason.	5,765	61,210
Battery Commanders Station, Gun and Mortar Batteries.	Fort Rodman, Mass,	Maj. Goethals, New Bedford, Mass.			2,000
Baltimore Custom House.	Baltimore, Md.	Hornblower & Marshall.	Hy. Smith & Sons.	50,000	
U. S. Government P. O.	Fitchburg.	J. Knox Taylor.	Richardson & Burgess.	1,000	
U. S. Training Station and Barracks.	Newport, R. I.	Creighton Withers.	J. W. Bishop & Co.	43.000	
Navy Yard Vaults and Machine Shop.	Boston, Mass.	Chas. W. Parks, C. E.	Norcross Bros. Co.	12,500	
Naval Academy.	Annapolis, Md.	Ernest Flagg.		3,000	
Cadets' Quarters.	Annapolis, Md.	Ernest Flagg.	Noel Construction Co.	3,224	
Mess Hall.	West Point, N. Y.		A. S. Traub Co.	5,000	
Extension U. S. C. H. and P. O. Building.	Hartford, Conn.		A. B. Stannard.	2,000	
Extension U. S. C. H. and P. O. Building.	Bridgeport, Conn.		A. B. Stannard.	1,600	
Total number of first quality brick				500.589	
Total number of second quality brick					92,210

CEMETERIES, VAULTS, TOMBS AND GREENHOUSES

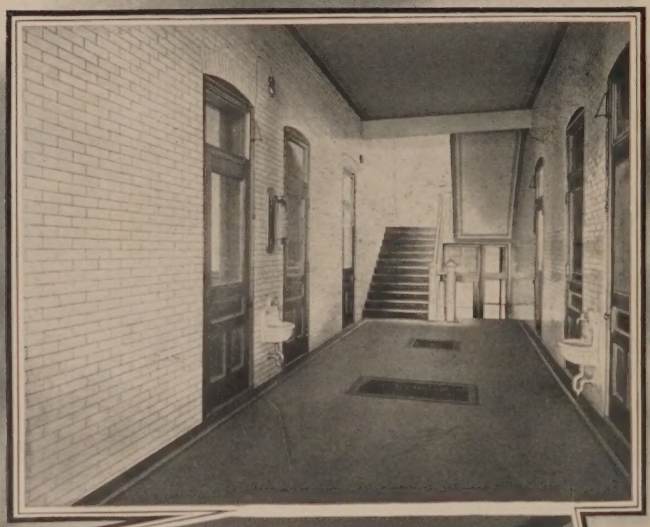
	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Woodlawn Cemetery.		Hoffman & Prochazka.	Hoffman & Prochazka.		
New Union Cemetery.		Hoffman & Prochazka.	Hoffman & Prochazka.		
Sleepy Hollow Cemetery.		Hoffman & Prochazka.	Hoffman & Prochazka.		
Receiving Tomb, Morningside Cemetery.	Bathboro, Mass.	Chas. E. Paige.	Temple Bros.	1,200	
Receiving Tomb.	Lawrence, Mass.		Langton Ehech.	5,000	
Kilborn & Jordan Tombs.	Portland, Me.		Union Granite Co.	1,000	
Capt. A. Pizzini.	Richmond, Va.			2,000	
Kensico Cemetery.	Val Halla, N. Y.			500	
Vault, Cemetery.	Roslyn, Pa.		Roydhous, Aray & Co.		3,200
Public Vault.	Sharon, Pa.	Edwin J. Schneider.	McIntyre & Sons.	7,000	
Private Vault.	Wooster, Ohio.	Myers & Long.	Myers & Long.	3,000	
Mt. Royal Cemetery.	Pittsburg & W. R. R. near Pittsburg.		James Whyte Co.	2.700	
Frank A. Day's Greenhouse	Newton, Mass.	Hitchins & Co.	Sylvester & Cooper.	1,800	
Total number of first quality brick				24,000	
Total number of second quality brick					3,200

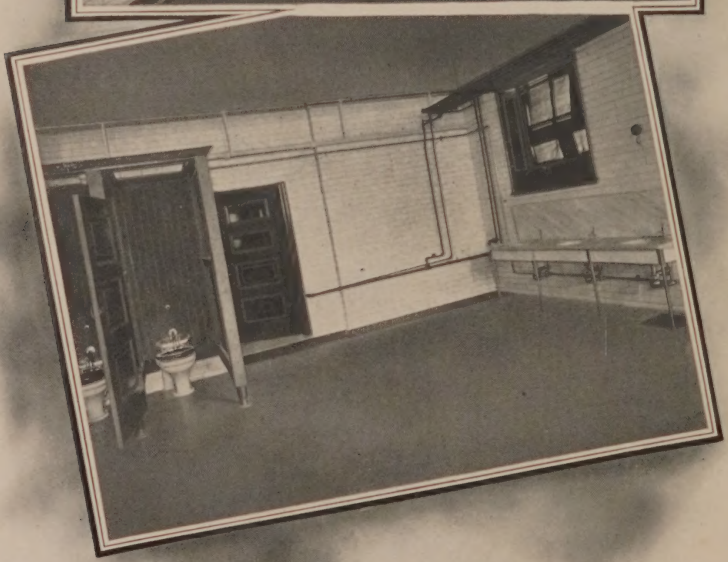
ATHLETIC CLUBS, CLUBS, UNIVERSITIES, COLLEGES AND SCHOOL BUILDINGS

NAME OF BUILDING.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
N. Y. Athletic Club, Swimming Pool and Water Polo Tank.	New York.	Wm. Cable.	Richard Deeves & Son.	12,000	
Columbia University, Swimming Tank.	Cathedral Heights.	McKim, Mead & White.	Norcross Bros.		
Columbia University, Gymnasium.	Cathedral Heights.	McKim, Mead & White.	Norcross Bros.	100,000	
Columbia University, Boiler Rooms.	Cathedral Heights.	McKim, Mead & White.	Norcross Bros.		
University Club.	New York.	McKim, Mead & White.	Chas. T. Wills.	20,000	
Ohio State University.	Columbus, Ohio.			15,000	
College of History, American University.	Washington.	W. M. Poindexter.	James L. Parsons.	20,000	
Benjamin Dean School.	Boston, Mass.	Wm. H. Besarick.	Walter C. Sampson.		45,000
New Dorchester High School.	Boston, Mass.	Hartwell, Richardson & Driver.	F. G. Coburn & Co.	13,000	
New Biglow School.	Boston, Mass.	Chas. T. Bateman.	Conners Bros.	15,000	
East Boston High School.	Boston, Mass.	John Lyman Faxon.	Mead, Mason & Co.		40,000
Highland Gammar School.	Holyoke.	W. B. Reid.	D. O'Connell Sons.		8,000
Pierce Grammar School.	Boston, Mass.	J. A. Schweinfurth.	Johnson Bros.	15,000	
Alpha Delta Phi Club, Harvard College.	Cambridge.	J. Charleston Parker.	C. A. Dodge & Co.	10,000	
William Street School House.	Springfield, Mass.	Guy Kirkham.	D. W. Mellen.	8,000	
McKinley Manual Training School.	Washington.	Henry Ives Cobb.	W. E. Spier.	30,000	
Boys' Club.	10th St. and Av. A.	P. Ohm.	Willmarth & Mackillop	4,500	
Union Club.	5th Ave. and 51st Street.	Jno. Du Fais.	Geo. A. Fuller Co.	5 600	51,000
St. Joseph's School.	87th St., Ave. A and 1st Ave.		P. Shaeffer & Son.		6,900
Winsted School.	Brighton, Mass.	Whitman & Hood.	Dennis A. Hogan.	15,000	
West Point Mess Hall.	West Point, N. Y.	U. S. Engineers.	A. S. Traub.	10,000	
Germantown Athletic Club.	Germantown, Pa.	George Newhall, Engineer.	A. S. Tourison.	18,000	
Brown University Plunge Bath.	Providence, R. I.		Maguire & Penniman.	6,650	
Camden Swimming Pool.	Camden, N. J.	Henry Newcomb.	Turner & Stewart.	5,000	
Public School, No. 53.	Buffalo, N. Y.		Rumrill & Carter.	18,000	
Pleasure Dome Ath. Club Swimming Tank.		Robertson & Potter.	Norcross Bros.	5,000	
Boys' Club House.	Pawtucket, R. I.	Stone, Carpenter & Wilson.	Willmarth & Mackillop	41,000	
Arthur C. Whitney School.	Andover.	Peabody & Stearns.	A. C. Whitney.	14,000	
Groton Academy.	Groton, Mass.	Peabody & Stearns.	A. C. Whitney.	8,800	
Westmorly Court Dormitory.	Cambridge, Mass.	Warren & Wetmore.	Chas. Logue.	10 000	
Charton Street School.	City of Newark.		S. Stradling.	15,000	
Institute of Technology.	Boston.	Rand & Skinner.	Frank B. Gilbreth.	800	
Racquet and Tennis Club.	Boston.	Parker & Thomas.	C. A. Dodge & Co.		8,000
Lasell Seminary, Swimming Tank.	Auburndale, Mass.	Own Architect.	J. A. Delacey.	2,000	
Brown University.	Providence.	Clarke & Howe.	Maguire & Penniman.		39,000
Cranston High School.	Cranston, R. I.	E. T. Banning.	F. G. Rowley.	6,400	
High School.	Lima, Ohio.	F. L. Packard.	E. S. & O. L. Mowen.	26,000	
Montreal Amateur Athletic Association, Plunge.	Montreal.	D. R. Brown.	P. Brown.		5,000
Y. M. C. A. Building.	New Britain, Conn.	Davis & Brooks.	H. B. Hibbard Co.	3,300	6,700
Institute of Arts.	Brooklyn, N. Y.	McKim, Mead & White.	P. J. Carlin Co.	18,100	
Public School, No. 150.	96th St., bet. 1st and 2d Aves., New York.	C. B. J. Snyder.	Guidone & Galardi.		22,000
Y. M. C. A. Building.	Springfield, Ohio.		G. H. Logan.		6,300
Commercial High School.	Albany Ave. and Bergen street, Brooklyn, N. Y.	C. B. J. Snyder.	Remington Construction Co.		34,000
Denniston School.	Washington, D.C.	Inspector of Buildings.		3,100	
Prospect School.	East Cleveland.	W. H. Hodges.	W.I.Thompson & Son.		5,750
Superior School.	East Cleveland.	W. H. Hodges.			5,750
Y. M. C. A. Building.	Parkersburg, W. Va.	E. T. Sanderson.	C. W. Prewett.		6,700
Public School No. 38, Broome and Dominick Sts.	New York	C. B. J. Snyder.	P. J. Carlin Const. Co.		5,200
Public School No. 104, 16th St. and First Ave. Stuyvesant High School	New York	C. B. J. Snyder.	P. J. Carlin Const. Co.		50,000
Public School No. 132, Wadsworth Ave. and 182d St.	New York	C. B. J. Snyder.	P. W. Finn.		32,000
Public School No. 41, Williamsbridge,	New York	C. B. J. Snyder.	P. W. Finn.		30,000

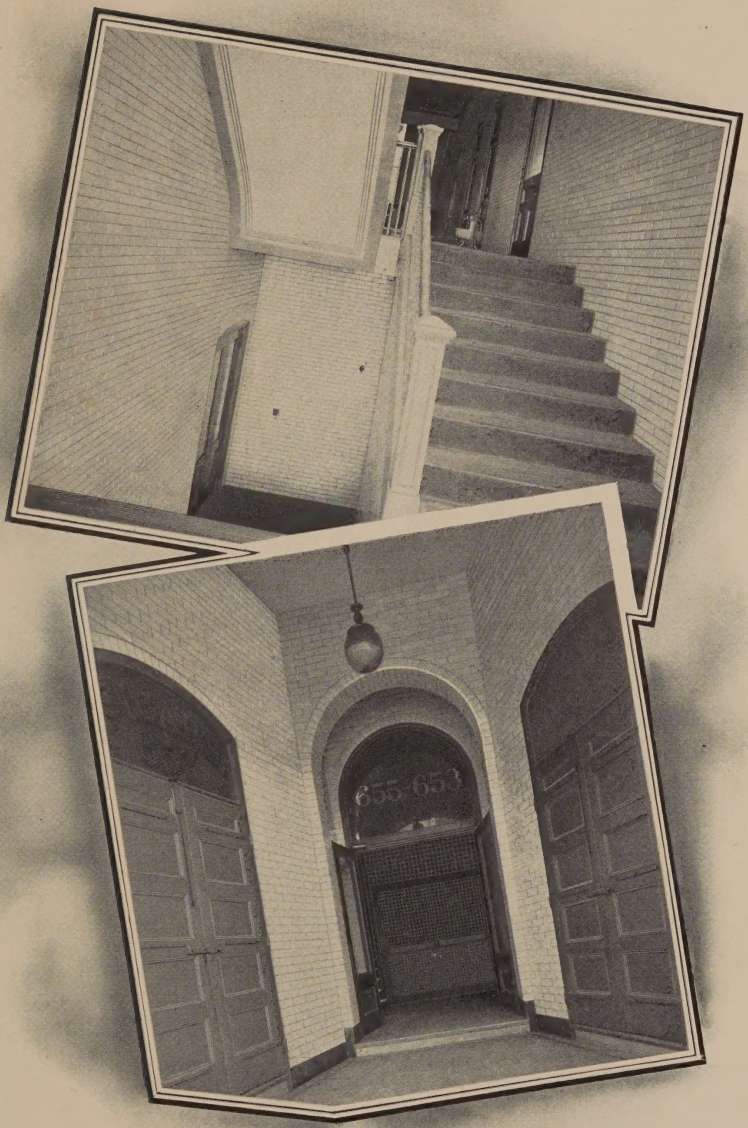
COLUMBIA UNIVERSITY. Gymnasium, Front Brick; Swimming Tank, Enameled Brick.

N. B.—Note reflection giving complete duplication of structure below the water line in the lower picture.





BENJAMIN DEAN SCHOOL, Boston, Mass.
PIERCE GRAMMAR SCHOOL, Boston, Mass.



BENJAMIN DEAN SCHOOL, Boston, Mass.
HICHT BUILDING, Boston, Mass.

ATHLETIC CLUBS, CLUBS, UNIVERSITIES, COLLEGES AND SCHOOL BUILDINGS (*Continued*)

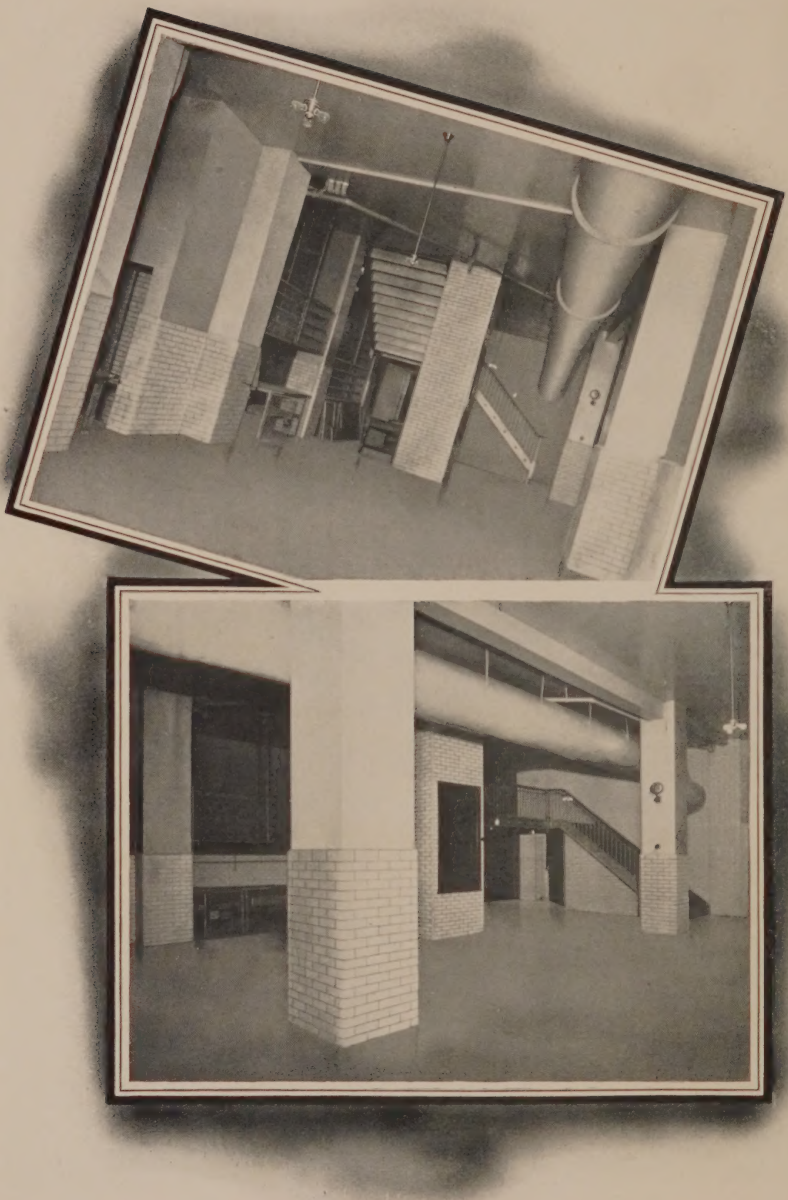
ADDRESS OF JOB. NAME OF BUILDING.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Public School No. 25, 4th St. and Ave. A and First Ave.	New York	C. B. J. Snyder.	P. J. Brennan		20,500
Public School No. 149, Sutter, Wyona and Vermont Aves.	Brooklyn, N. Y.	C. B. J. Snyder.	Peter Cleary.		30,600
Total number of first quality brick				494,250	
Total number of second quality brick					458,500

HOTELS, APARTMENTS, RESTAURANTS AND SUPPLY STORES

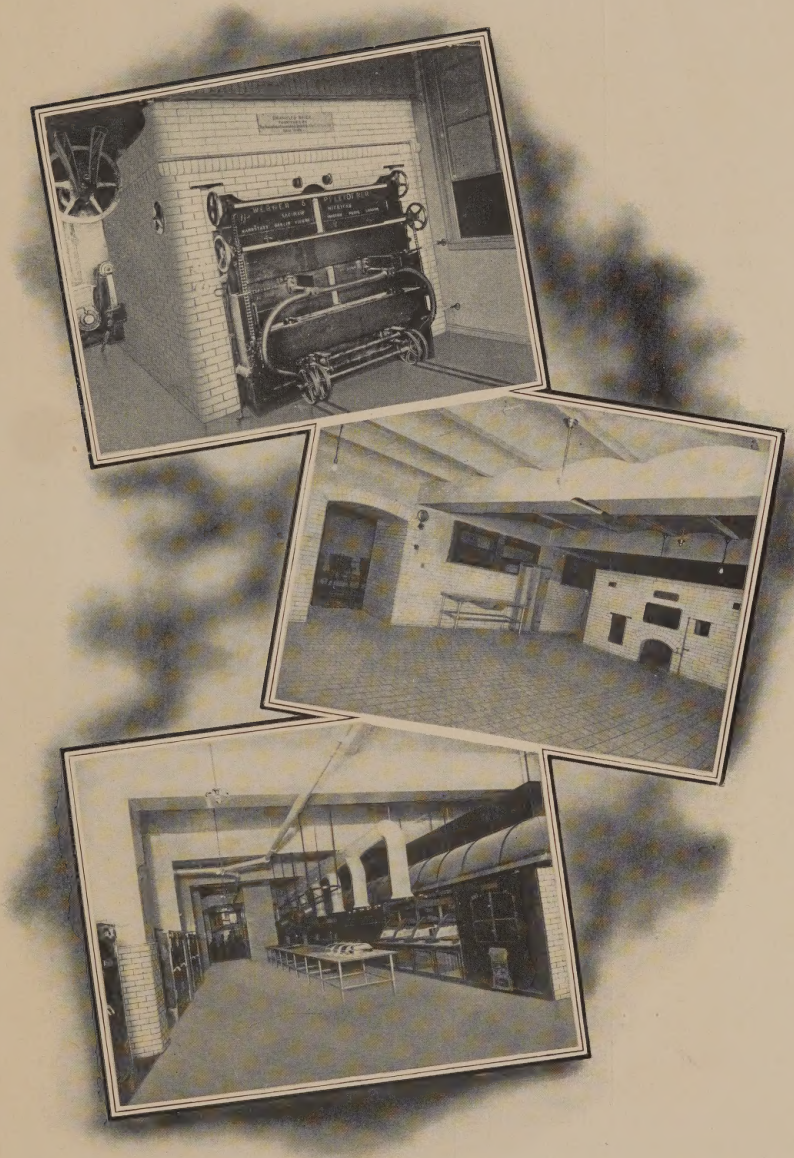
NAME OF PLACE.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Waldorf-Astoria.	New York.	H. J. Hardenberg.	Jno. Downey.	11,000	
Hotel Manhattan.	New York.	H. J. Hardenberg.	M. Eidlitz & Son.	3,000	
Bellevue Stratford Hotel.	Broad and Walnut Sts., Phila., Pa.	G.W.&W.D.Hewett, Philadelphia.	Geo. A. Fuller Co.	462,000	
Apartment House.	Clinton Ave. and Thomas Street, Newark, N. J.			11,400	
Casino Restaurant.	Central Park.	N. J. Rose.	Sandberg & Feek.	3,000	
Restaurant and Delicatessen Store.		J. P. Walthers.	Geo. Schiedecker.	5,000	
Buchbaum's Butcher Store.	165 Amsterdam Ave., New York.	Wm. J. Fryer, New York.	Cranwell & Son.	13,230	
Tenement House.	Broome and Mulberry, NewYork.		Marasco & Abbatte.		32,000
Clinton Apartments, L. Lehman, Owner.	Newark, N. J.	W. E. Lehman.	A. Stradling.	12,000	
Apartment House, cor. S. Orange and Littleton Avs.	Newark, N. J.	H. Kreitler.	Jos. Oschwald.	3,000	
Cecil Apartments.	Newark, N. J.	W. E. Lehman.	A. Stradling.	5,000	
La Grange Apartments.	Newark, N. J.	W. E. Lehman.	P. Vanderhoff & Son.	6,000	
Apartment House.	S. 9th St., Newark.	W. Schaenig.	Oscar Staeger.	3,000	
Apartment House.	9th St. and S. O. Ave., Newark.	Carl Rehman.	Oscar Staeger.	4,000	
Apartment House.	59 Nelson Place.	A. Connolly.	Jas. Connolly.	1,000	
Apartment House.	287 Mulberry St., Newark, N. J.	C. F. Rehman.	Jas. Connolly.	2,000	
J. C. Walker.			H. C. Moran & Son.	5,565	
Strawbridge, Clothier & Co.	8th and Walnut, Philadelphia, Pa.	Addison & Hutton.	F. M. Harris & Co.	20,000	
No. 4 Faneuil Hall Square.	Boston.	Samuel D. Kelly.	Hezekiah McLaughlin	3,300	
Newport Market.	Newport, R. I.	J. Alton Parker.	Benj. White.	5,000	
New Willard Hotel, Range Work.	Washington, D.C.	H. J. Hardenberg.	Duparquet, Huot & Moneuse Co.	600	
Belvedere Hotel, Range Work.	Baltimore, Md.	Parker & Thomas.	Duparquet, Huot & Moneuse Co.	1,130	
Galen Hall.	Atlantic City, N.J.	H. A. Stout.	Stephen Lane Co.		15,200
Liberty Restaurant.	Pittsburg, Pa.		S. J. Little Planing Mill Co.	2,000	
Bellefield Apartments.	Pittsburg, Pa.	Carlton Strong.	James Whyte Co.		16,000
Total number of first quality brick				582,225	
Total number of second quality brick					63,200

BELLEVUE STRATFORD HOTEL, Philadelphia, Pa.

467,000 Enameled Brick.

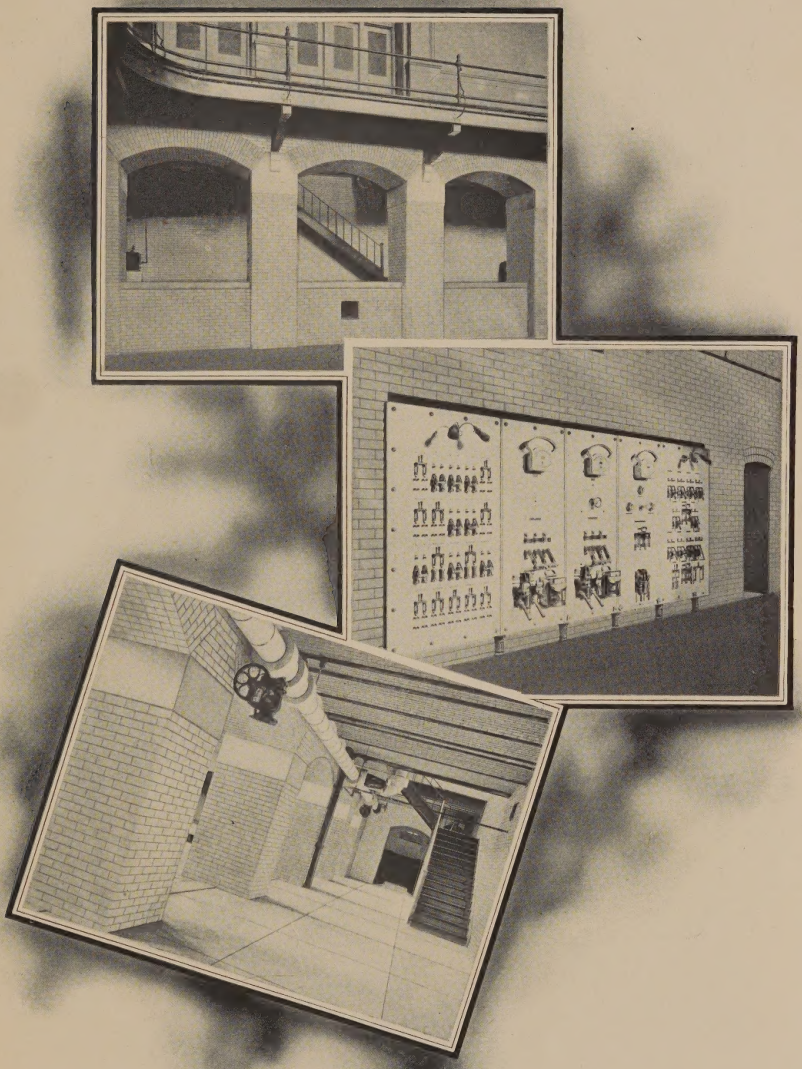


CULINARY DEPARTMENT OF BELLEVUE STRATFORD HOTEL, Philadelphia, Pa.



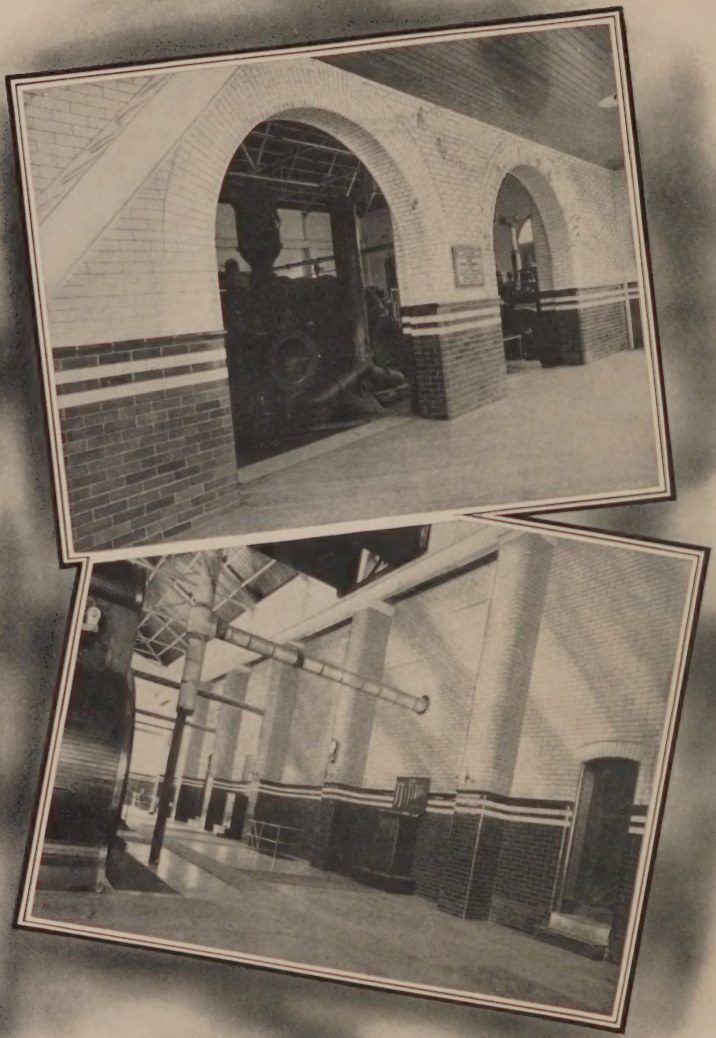
BAKERY OF BELLEVUE STRATFORD HOTEL, Philadelphia, Pa.

NAME OF BUILDING.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Trumbull Pumping Station.	Washington, D.C.	Henry Brauns.	Geo. A. Fuller Co.	125,000	
Belmont Pumping Station.	Philadelphia, Pa.	Jas. C. Hand, Dept. Engineer.	S. E. Moore.	240,000	
Race St. Pumping Station.	Philadelphia, Pa.	Jas. C. Hand, Dept. Engineer.	Samuel E. Moore.	22,000	
Trenton Water Works.	Trenton, N. J.	W. A. Poland.	John Barlow.	50,000	
Knoxville Water Co.	Knoxville, Tenn.	Wm. Wheeler, Eng., Boston.			15,000
Jerome Park Reservoir Pumping Station.	New York.	City Engineer.	Ryan & McFarren.	25,000	75,000
Schenectady Water Works.	Schenectady, N.Y.			10,000	
Montreal St. Railway P. H.	Montreal, Can.	Own Engineer.	Own Engineer.	15,000	
Manhattan El. R. R. Power House, 74th St. & E. R.	New York.	Wm. H. Smith.	M. Reid & Co.	40,000	
Edison Co. Power House.	Brooklyn, Foot 66th St.	Own Engineers.	Atiliow Pasquini.		6,300
Edison Co. Power House.	38th & 39th Sts., New York.	J. Van Vleck.	P. J. Carlin & Co.		50,000
Brooklyn Trolley Power House.		J. Murray.	A. Pasquini.	15,000	
Trolley Power House.	Woodside, L. I.	J. Murray.		10,000	
South Jersey Traction Co.	Camden, N. J.	G. Stephens.	I. S. Rodgers Co.	5,000	
United Railway & Electric Co. Boiler House.	Baltimore, Md.	Baldwin & Pennington.	John Waters.		103,450
United Railway & Electric Co. Power House.	Baltimore, Md.	P. O. Keilholtz.	John Waters.		103,000
Charlestown Navy Yard, Electric Light Station.	Boston.	Frank O. Maxon, U. S. Engineer.	Woodbury & Leighton.		20,000
Charlestown Navy Yard, Pump Well.	Boston, Mass.	Frank O. Maxon, U. S. Engineer.	O'Brien, Sheehan, Perkins & McHale.		39,000
Lincoln Water Works.	Lincoln, Mass.	Geo. Newton.	J. M & C. J. Buckley.		3,000
General Electric Co.	Lynn, Mass.		Thayer & Co.	1,500	
Brooklyn Rapid Transit Power House.	Kent Ave., Brooklyn.			650	
Kittery Navy Yard (Portsmouth Dry Docks).	Portsmouth, N. H.		John Peirce.	48,000	
Kingsbridge Power House.	218th St., N. Y. C.		Isaac A. Hopper.	53,000	
Brooklyn Transit Power House.	Coney Island.	J. Murray.	A. Pasquini.	6,300	
Brooklyn Rapid Transit Power House.	Fulton St. and Brooklyn Ave.	J. Murray.	A. Pasquini.	7,700	
International Power Co.	Providence, R. I.		T. E. Ross & Son.	4,000	
Brooklyn H. R. R. Power House.			W. S. & G. H. O'Shea.		40,000
Power House, Charlestown Navy Yard.	Boston.	Eng., Frank O. Maxon.	P. J. McCaffery.	20,000	
Citizens' Light and Power Co.	Rochester, N. Y.	Thomas E. Murray, Eng.	A. Friederich & Sons.	12,000	
Power House No. 1, of Lackawanna Steel Co.	Buffalo, N. Y.	Own Engineers. (*See Mills and Factories.*)	Own Engineers. (*See Mills and Factories.*)	2,000	400,000
Blowing Engine House, Machine Shop, Electric Power House, Pump House, Union Steel Co.	Donora, Pa.	Own Engineers. (*See Mills and Factories* 400,000.)	Own Engineers. (*See Mills and Factories* 400,000.)		
Brooklyn Heights R. R. Co. (Power Station).	52d St. and 1st Ave.			1,600	
Montreal Street Railway.	Montreal.	Own Engineers.		17,800	
Philadelphia Electric Co.	Philadelphia, Pa.	Jas. H. Windrum.	F. M. Harris & Co.	20,000	
Trumbull Street Pumping Station, Machinery Foundations.	Washington, D.C.	Henry Brauns.	Geo. A. Fuller Co.	6,878	
Trumbull Street Pumping Station, Boiler Work.	Washington, D.C.	Henry Brauns.	George Hughes.	5,130	
Edison Electric Co. Power House.	Foot 65th Street, Brooklyn. N. Y.	Own Engineers.	George Driscoll.		1,000
United Gas Improvement Co. Power House.	Point Breeze Station, Phila.	Own Engineer.	Own Engineers.	650	
Brooklyn Heights R. R. Company Central Power Station.	1st Street and Gowanus Canal, Brooklyn, N. Y.	Own Engineer.	W. S. & G. H. O'Shea.		1,000
Brooklyn Heights R. R. Power House.	Fulton St. & Tompkins Av., B'klyn.	Own Engineer.	A. Pasquini.	2,000	
Electric Co.	26th & Christian, Philadelphia.		F. M. Harris & Co.	20,000	
Indianola Heating & Lighting Co.	Columbus, Ohio.	F. L. Packard.	S. J. Isabel.		12,000
Massachusetts Electric Co. Power House.	Brockton, Mass.	Walter N. Sheafe, Eng.	George Howe.	3,500	
Brockton Pumping Station.	Halifax, Mass.	Thayer & Co., Eng.	Thayer & Co.		400
Boston Pumping Station.	Boston, Mass.	E. D. Lovitt, Eng.	J. P. O'Connell.	1,125	
Power House.	Yonkers, N. Y.		R. L. Stewart.	1,700	
Edison Electric Co.	Brooklyn, N. Y.	Own Engineer.	George Driscoll.		3,500
Power House of Companhia Ferro Carril do Jardim Botanico.	Rio Janeiro, South America.		Companhia Ferro Carril do Jardim.	10,400	
Total number of first quality brick				802,933	
Total number of second quality brick					917,650



TRUMBULL STREET PUMPING STATION, Fourth and Pomeroy streets N. W., Washington, D. C. Owners, Water Department, District of Columbia; W. A. McFarland, Superintendent. Architect, Henry Brauns. Builders, The Geo. A. Fuller Co. Engineer and Superintendent of Construction, Charles Albert McKenny, A.S.C.E.

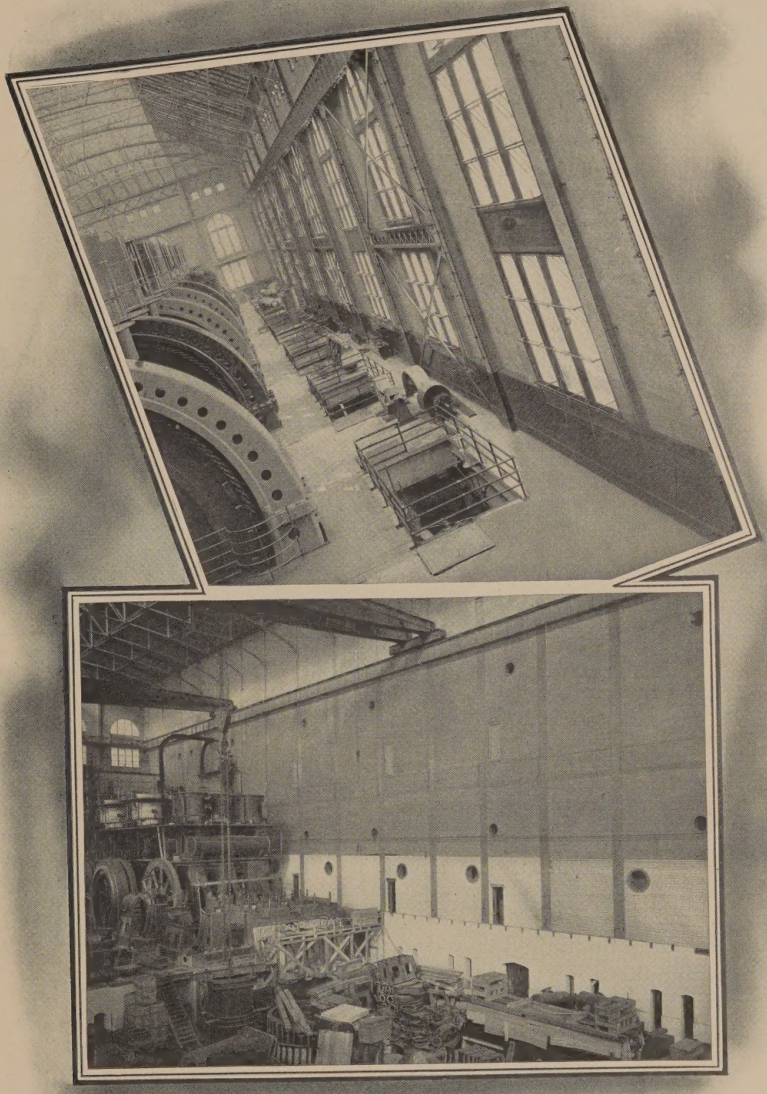
125,000 First-Quality Brick.



BELMONT PUMPING STATION, PHILADELPHIA WATER WORKS.

Engineer, Frank L. Hand. Builder, George S. Dietrich.

Quantity, 100,000 First-Quality Brick.



EDISON CO. POWER HOUSE, 38th and 39th streets, New York.
Architect, J. Van Vleck. Builders, P. J. Carlin Co.
Quantity, 50,000 Second-Quality Brick.

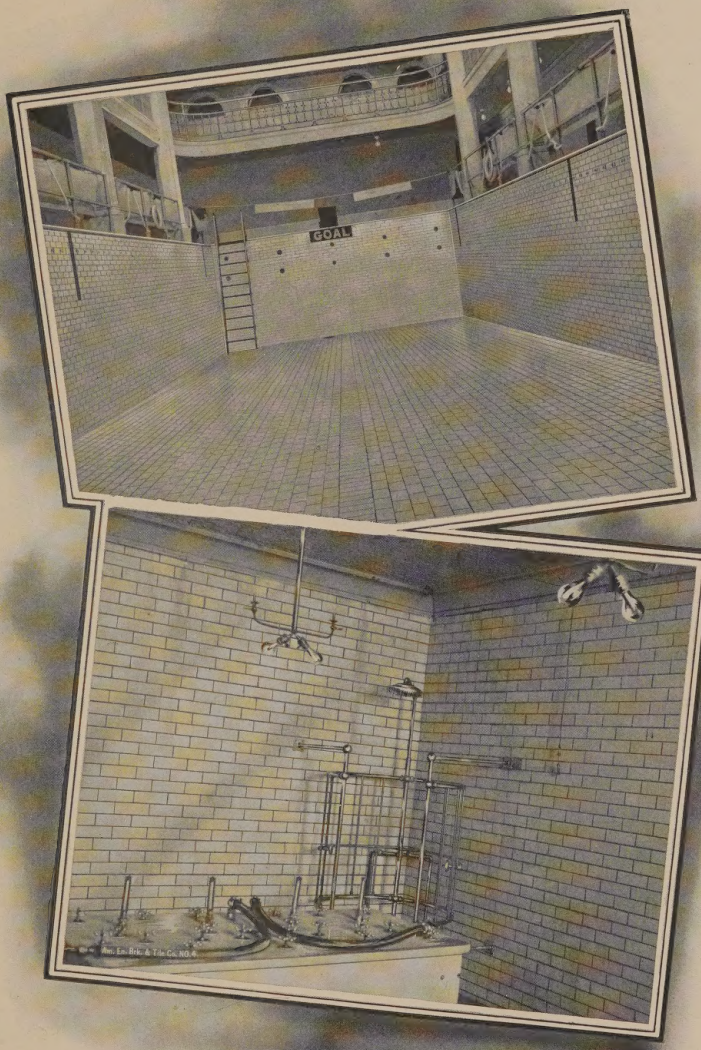
"WATERSIDE STATION" ELECTRIC POWER HOUSE, First avenue and East River, 38th-39th streets.
Architects, Edison Co., New York. Builders, M. Reid & Co. Owners, Edison Co.
Quantity, 45,000 Second-Quality Brick.

NATATORIUM SWIMMING POOLS AND COMFORT STATIONS

NAME.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Public Natatorium.	Albany, N. Y.	A. W. Fuller.		8,000	
N. Y. A. C. Swimming Pool.	New York.	(*See Universities, Colleges, Etc.*) Wm. Cable.	Richard Deeves & Son.		
Columbia University Swimming Pool.	New York.	(*See Universities, Colleges, Etc.*) McKim, Mead & White.	Norcross Bros.	100,000	
Brown University Swimming Pool.	Providence, R. I.	(*See Universities, Colleges, Etc.*) Stone, Carpenter & Wilson.	Maguire & Pennimen.		
Comfort Station.	City Hall Park, New York.	Cady, Berg & See.	Thomas Dwyer.	10,000	
Comfort Station.	Riverside Drive, New York.	Howard & Cauldwell.	John F. Johnson.	5,000	
Comfort Station.	Riverside Drive, New York.	Howard & Cauldwell.	John F. Johnson.	5,000	
Hollender Baths.	149 W. 125th St.		J. Schiedecker.	6,000	
Lavatories in Branch Brook Park.		Carrerre& Hastings.	W. H. Connolly.	25,000	
Prof. Alexander Graham Bell.	Washington, D. C.	Totten & Rogers.	C. A. Langley.		4,050
Massachusetts Park Commission.	Boston.	A. W. Longfellow, Jr.	John A. Rooney.		15,000
La Salle Seminary Swimming Tank.	Auburndale, Mass.	Own Architect.	J. A. Delacey.	2,000	
Montreal Amateur Athletic Association Plunge.	Montreal.	D. R. Brown.	P. Brown.		5,000
Westmorly Court Dormitory Swimming Pool.	Cambridge, Mass.	Warren & Wetmore.	Chas. Logue.	For quantity see Universities and Colleges.	
Metropolitan Park Sanitaries.	Boston, Mass.	A. W. Longfellow, Jr.	John A. Rooney.	7,600	7,000
Lyceum Building Swimming Pool.	Pittsburg, Pa.	J. T. Comes.	Thos. Booth.	1,200	2,450
Total number of first quality brick				169,800	
Total number of second quality brick					33,500

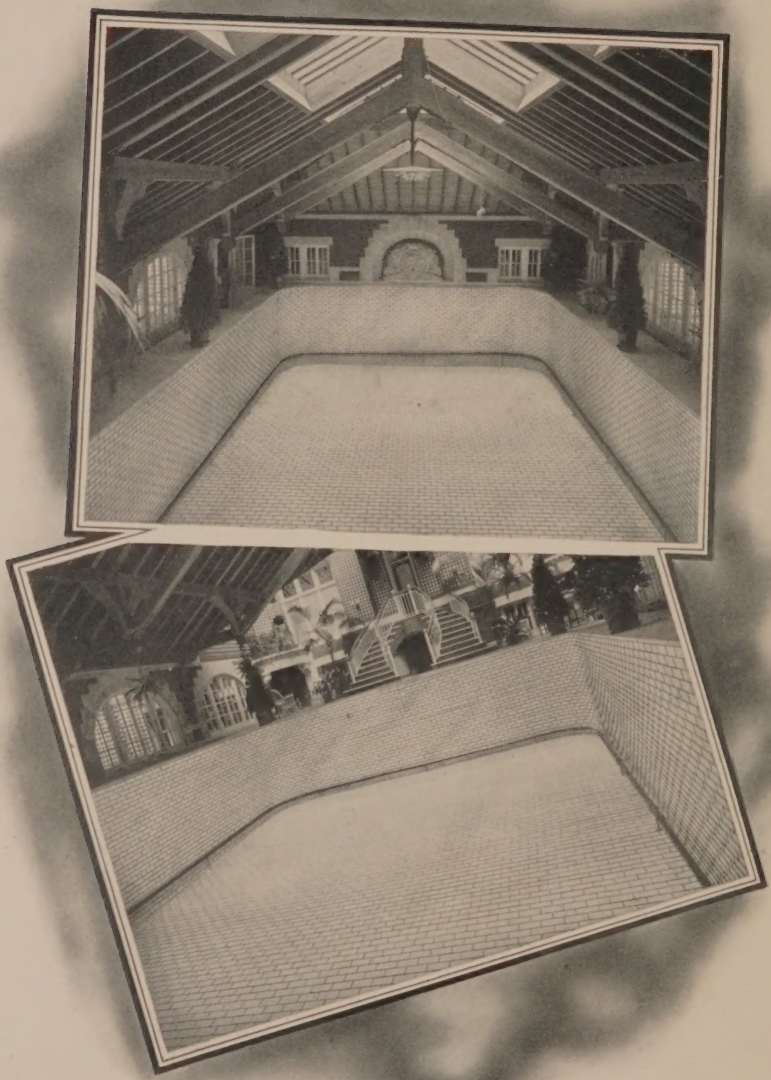
HOSPITALS, ASYLUMS, HOMES

NAME OF HOSPITAL.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
St. Catherine Hospital	Brooklyn, N. Y.	Schickel & Ditmars.	W. & T. Lamb.	30,000	
St. Francis Hospital.	New York.	Schickel & Ditmars.	S. Niewenhous	140,000	
German Hospital Kitchen.	New York.	Schickel & Ditmars.	Geo. Vassar's Son&Co.	10,400	
R. C. Orphan Asylum	University Heights	Schickel & Ditmars.	I. A. Hopper & Son	100,000	
R. C. Orphan Asylum.	University Heights.	Schickel & Ditmars.	M. Reid & Co.	125,000	
Bellevue Hospital Inebriates' Baths	New York.	Withers & Dickson.	John F. Johnson	25,000	
Mass. State Hospital.	Boston, Mass.	Wheelwright & Haven.	Connery & Wentworth	90,000	
Worcester Insane Hospital.	Worcester, Mass	Fuller & Delano.	Own Engineers.		12,000
Westborough Insane Hospital	Westborough		Own Engineers.		15,000
Worcester City Hospital.	Worcester, Mass	G.I. Rockwood, Esq.	Urgul Jacques.		16,000
Rhode Island Hospital.	Providence, R. I.	Stone, Carpenter & Wilson.	J. C. Goff.		20,000
Royal Victoria Hospital	Montreal, Can.	Taylor & Gordon.	Amos Cowan.	20,000	
Middletown Homeopathic Hospital.	Middletown, Ct.			25,000	
Binghamton State Hospital.	Binghamton, N.Y.	I. G. Perry.	Miles Leonard	75,000	
St. Joseph's Hospital.	Yonkers, N. Y.		Robert L. Stewart	2,500	
Conn. Hospital for Insane.	Middletown			4,000	
Isabella Home.	190th St., N. Y.		Geo. Vassar'sSon&Co	5,000	
Roman Catholic Novitiate Hospital.	Poughkeepsie.	Schickel & Ditmars.	J. D. Murphy.	35,000	
U. S. Naval Hospital.	Chelsea, Mass.	F. O. Maxon.	C. H. Dodge Const. Co.	10,000	
Worcester Convent.	Worcester, Mass.	P. W. Ford.	J. A. McDermott.	2,000	
House of Correction.	Boston.	A. Warren Gould	Mack & Moore	13,640	
Institution for Homeless Children.	West Seneca.	Rev. Father Bohm.		3,000	
St. Joseph's R. C. Hospital.	16th and Girard Ave., Phila.	Rowland W. Boyle.	Sam'l Gomby, Jr.	5,300	
Harlem Hospital.	137th St. and Lenox Ave., N. Y.	Horgan & Slattery.	P. J. Carlin Co.	10,100	
Dr. Steinjann's Sanitarium.	Brooklyn, N. Y.				7,000
Total number of first quality brick				730,940	
Total number of second quality brick					70,000



NEW YORK ATHLETIC CLUB, New York.
Water Polo Tank.

BELLEVUE HOSPITAL INEBRIATE BATHS.
Architects, Withers & Dickson, New York. Builder, J. F. Johnson, New York.
Owners, City of New York.



PLUNGE BATHS.
WESTMORLY COURT, HARVARD UNIVERSITY, Cambridge, Mass.

ROYAL VICTORIA HOSPITAL, Montreal, Canada.

GERMAN HOSPITAL KITCHEN, 77th street, between Lexington and Fourth avenues, New York.

Architects, Schickel & Ditmars. Builders, George Vassar's Son & Co.

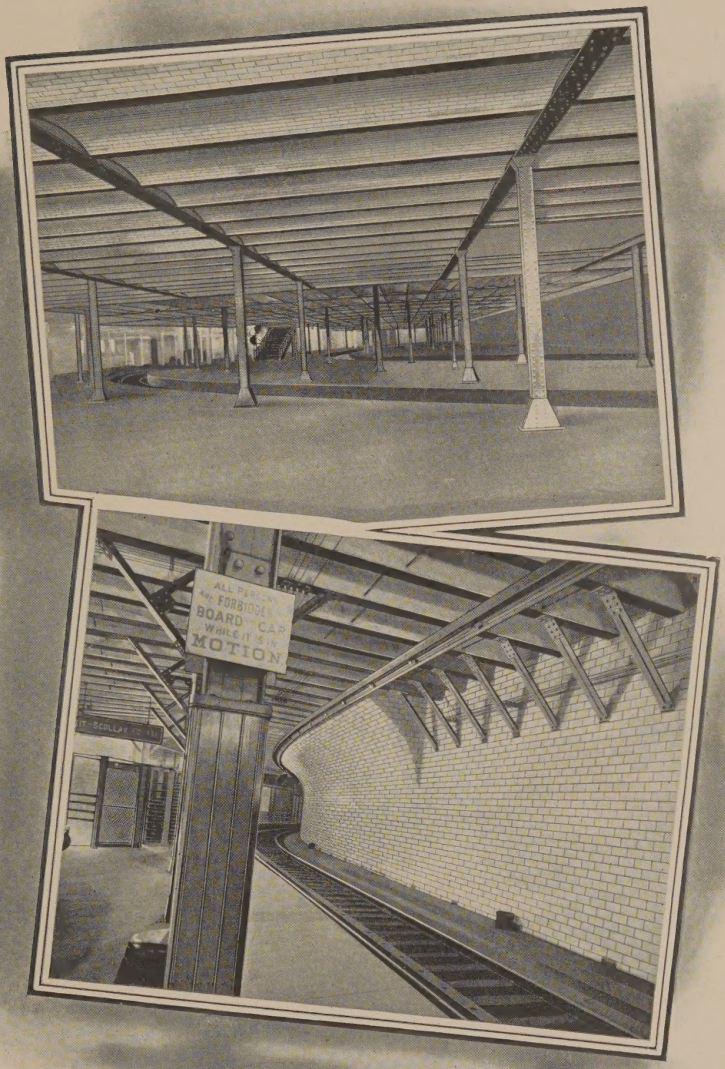
PRIVATE STABLES

OWNER.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
F. W. Vanderbilt.	120 E. 75th St., New York.	R. H. Robertson.	Norcross Bros.	15,000	
Hon. Whitelaw Reid, Ophir Farm.	Portchester.	McKim, Mead & White.	Mr. Thourvard.		60,000
	120 E. 75th St.	McKim, Mead & White	John J. Tucker.	15,000	
	Portchester.	Nathan C. Mellen.	Wm. Ryan.	10,000	
	Utica, N. Y.	J. Constable, Utica, N. Y.	John F. Hughes.	15,000	
F. W. Moleson.	Montreal	R. A. Findley, Montreal.	Amos Cowin.	8,000	
C. R. Hosiner.	Montreal.	E. Maxwell.	Amos Cowin.	10,000	
Eugene Reynel.	White Plains, N. Y.	Don Barber.	Fountain & Choate.	26, 650	
C. C. Harrison's.	17th St. and Rittenhouse Sq., Philadelphia, Pa	Cape & Stewardem.	Albert Doak.	16 000	
Webb Horton.	Middletown, N. Y.	F. J. Lindsey.	F. J. Lindsey.	13,000	
N. R. H. Martins.	149 E 38th St.	Ralph S. Townsend.	Isaac A. Hopper & Son	15,000	
Fred'k Lovejoy.	Wilkensburg, Pa.		Wm. Miller & Son.	28,000	
Christian Heurich.	Washington.	A. P. Clarke, Jr.	S. J. Prescott & Co.	11,000	
Boston City Stables.	Boylston St, Boston.	City of Boston.	Howard Bros.	11,120	
Douglas W. Mabee.	Saratoga Springs.	R. Newton Breeze.	W. S Robertson.		9,500
D. P. McQueen.	Saratoga Springs.	R. Newton Breeze.	W. S. Robertson.		3,800
T. Elwood Allison.	Villageford. Pa.	Morris Vaux.	Bowen & Bowen.	12,500	
T. H. Dixon.	Chester Hill, Philadelphia, Pa.		Hoffmier & Son.	6,000	
Nelson Perrin.	Baltimore, Md.		John Waters.	10,220	
Worcester Street Railway.	Worcester, Mass.	Own Engineer.	Norcross Bros. Co	1,500	
Mr Owen's Stable.	Vineyard Haven.	Mark Cummings.	Swift & Company.		7,500
Lars Anderson.	Washington, D. C.	Little & Brown.	Connery & Wentworth	27,225	
Allison Stable.	Wallingford, Pa.	Morris & Vaux.	Bowen & Bowen.	12,000	
F. T. F. Lovejoy, Stables.	Pittsburg, Pa.	Alden & Harlow.	Wm. Miller & Sons.	8,000	16,000
Fraunhein Stable.	Shadyside, Pa.		James Whyte & Co.		6,000
Julius A. Stursberg.	Bernardsville, N. J	Schickel & Ditmars.			
Automobile Station.	Brookline, Mass.		Johnson Bros.	7,000	
Fred Coxes'.	Toronto.		Dancy Bros, Masons.	2,000	
Total number of first quality brick				280,215	
Total number of second quality brick					102,800

RAILROAD STATIONS AND SUBWAYS

NAME OF BUILDING.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Subway under the Boston Terminal Station.	Boston.	Shepley, Rutan & Coolidge.	Norcross Bros.	500,000	
Scollay Square, Boston Subway.	Boston.	Eng. Howard A. Carson.	Norcross & Cleveland.	40,000	
N. Y., N. H. & H. R. R. Station.	Hartford.	Hartford, Conn.	M. L. Ryder Building Co.	10,000	
N. Y., N. H. & H. R. R. Station.	Pleasantville, N. Y.	Reed & Stem.	H. H. Vought & Co.	14,700	
N. Y., N. H. & H. R. R. Station.	Scarsdale, N. Y.	Reed & Stem.	H. H. Vought & Co.		
New York Subway, 59th Street Circle.	New York.	Wm. B. Parsons.	Naughton & Co.	20,000	80,000
New York Subway, 110th Street.	New York.	Wm. B. Parsons.	Farrell & Hopper.	3 000	
New York Subway.	60th Street and Broadway.	Wm. B. Parsons.	Wm. Fradley.	10,000	
Sullivan Square Station, Boston	Boston.	A. W. Longfellow.	Whidden & Co.	12,000	
Dudley Street Station, Elevated R. R.	Boston.	A. W. Longfellow.	Whidden & Co.		
Subway, Fitchburg R. R. Co.	Fitchburg, Mass.	A. S. Cheever, Eng.	Woodbury & Leighton	15,000	
New York and Brooklyn Bridge No. 2, New York and Brooklyn Terminals.	New York and Brooklyn.	Bridge Eng.	United Eng. & Contract. Co.	50,000	50,000
Grank Trunk Railway.	Portland, Me.	Spiers & Rohn.	Boston Mosaic Co.	3,200	
Scollay Square Tunnel.	East Boston, Mass	Charles Brigham.	Woodbury & Leighton	975	
Pennsylvania R. R. South Street Station.	Newark, N. J.	Own Engineers.	Millard & McGraw.	21,700	
Sullivan Square Station.	Boston, Mass.	George A. Kimball, Chief Engineer.	Boston Elevated Railway Company.	3,050	
Cincinnati Railway Omnibus Co. Building.	Cincinnati, Ohio.	Elzner & Anderson.			
Williamsburg Bridge, Comfort Stations.	New York and Brooklyn.	Bridge Engineer.	Snare & Triest Co.	37,000	
Total number of first quality brick				740,625	
Total number of second quality brick					130.000

SOUTH TERMINAL STATION, Boston, Mass.
SUBWAY ROOF UNDERNEATH THE SAME.
Architects, Shepley, Rutan & Coolidge. Builders, Norcross Bros.
500,000 First-Quality Brick.



SOUTH TERMINAL STATION, Boston, Mass.

SCOLLAY SQUARE, BOSTON SUBWAY.

Engineer, Howard A. Carson. Builders, Norcross & Cleveland.
40,000 First-Quality Brick.

59TH STREET STATION, NEW YORK SUBWAY.
Engineer, William Barkley Parsons.
100,000 Brick, 80 per cent. Seconds, in arches of roof.

MILLS AND FACTORIES

NAME OF BUILDING.	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Brooklyn Distillery Co.	Brooklyn, N. Y.	Own Engineers.	Own Engineers.		25,000
Bridgeport Locomotive Co.	Bridgeport, Conn,	Own Engineers.	Flynt Building and Con. Co.		55,000
Botany Worsted Mills.	Passaic, N. J.	Own Engineers.	Flynt Building and Con. Co.		120,000
Solvay Process Co.	Syracuse, N. Y.	Own Engineers.	Own Engineers.	13,000	
Cochrane Chemical Co.	Everett, Mass.	Own Engineers.	Own Engineers.	1,200	
Holyoke Spring Water Co.	Holyoke, Mass.	Own Engineers.	Own Engineers.	3,000	
Plymouth Cordage Co.	Plymouth, Mass.	Lockwood, Greene & Co.	Flynt Const. Co.		40,000
Cheroot Factory.	Richmond, Va.	Lockwood, Greene & Co.	Geo. A. Fuller Co.		85,000
Yale Laundry.	Washington, D. C.	Thomas Francis.	F. L. Hanvey		109,650
Massachusetts Cotton Mills.	Linsdale, Ga.		Flynt Building and Con. Co.		24,000
B. B. Candy Kitchen.	Columbus, Ohio.	Own Engineers.	S. J. Isabelle.		30,000
Blowing Engine House, Machine Shop, Electric Power House, Pump House of Union Steel Co.	Donora, Pa. Pittsburg, Pa.	Own Engineers.	Own Engineers.		400,000
Royal Worcester Corset Co.	Worcester, Mass.	Engineers. Arthur F. Gray.	J. W. Bishop Co.	11,500	
Hollingsworth & Whitney's Paper Mill.	Hyde Park, Mass.	Dean & Main, Engineers.	H. P. Cummings Co.	4,000	
Stirling Mills.	Lowell, Mass.	Own Engineers.	Thompson Hardware Co.	8,590	
Car Barns, No. St. Railway Co.	Montclair, N. J.	Thomas Cressy,	Jos. Oschwald.	15,000	
John B. Stetson Co.	Philadelphia, Pa.	Own Engineers.	Own Engineers.	7,200	
Ostby & Barton Building.	Providence, R. I.	Hartwell, Richardson & Driver.	Maguire & Penniman.	9,000	
Boston Rubber Shoe Co.	Malden, Mass.	Own Engineers.	Alfred Cast.	700	
Irons & Russell Building	Providence, R. I.	Martin & Hall.	J. W. Bishop Co.		41,000
Whiting & Sons Factory.	Boston.	J. G. Bartlett.	W. A. & H. A. Root.	1,000	
Farr Alpaca Mill.	Holyoke, Mass.	Samuel M. Green, Engineer.	D. J. Landers.	12,000	
Walter M. Lowney Co.	Mansfield.	Dean & Main, Engineers.	H. P. Cumings Co.		17,000
Imperial Tobacco Co.	Richmond, Va.	N. J. Blauvelt	Chas. H. East.	6,100	
Jos. Benn & Sons' Mills.	Greystone, R. I.	Frank P. Sheldon & Co., Engineers.	J. W. Bishop Co.		20,000
Palmers' Candy Kitchen.	445 West 31st St., N. Y.		P. J. Carlin Co.	53,000	16,400
Beadleston & Woerz.	West 10th St., N.Y.	Own Engineers.	Louis Weber Bldg. Co.	2,100	
Highland Park Mfg. Co.	Charlotte, N. C.			5,000	
Abattoir.	New York City.	Horgan & Slattery.	Jacob A. Zimmermann	68,000	
S. S. White Dental Co.	Prince's Bay, Staten Island.	Own Engineer.	Geo. S. Chatfield Co.		29,000
Engine Room, Winsted Hosiery Co.	Winsted, Conn.				4,000
Bakery.	S. W. cor. Broad and Henry Sts., Richmond, Va.	Carl Ruehrmund	W. Benj. Davis.	10,300	
Total number of first quality brick				230,390	
Total number of second quality brick					1,016,050

POLICE STATIONS AND FIRE HOUSES

	CITY.	ARCHITECT.	BUILDER.	1ST QL.	2D QL.
Police Station.	Hartford.	J. J. Duner.			
Suffolk Jail.	Boston.	H. H. Atwood.	McNeill Bros.	42,800	
Police Station.	20th and Fitzwater Sts., Philadelphia, Pa.	G. W. Gilman.		11,000	
Fire Engine House.	Newark, N. J.				
Fire Engine House.	Centre St., City of Newark.		James Moran & Son.	10,000	
Fire Engine House.	Congress St., City of Newark.		A. Stradling.	8,000	
Fire Engine House.	Belmont Ave., City of Newark.		A. Stradling.	5,000	
Fire Engine House.	26th and York Sts., Philadelphia, Pa.	John T. Windrum.	Turner & Kelly.	21,500	
Fire Engine House.	12th St., New York	Horgan & Slattery.	P. J. Gallagher.		
Fire Engine House.	Brooklyn, N. Y.		Frank Mapes.		25,000
Total number of first quality brick				98,300	
Total number of second quality brick					25,000

ENAMELED BRICK, ITS HISTORY AND ITS USES

Definition Brick with a china or porcelain face like a veneer, closely bonded with the body in both chemical and mechanical union, so that action of the popularly called "elements"—fire, water and atmospheric conditions, frost, rain, smoke and entrained acids—will not affect them.

Acid and Alkali Proof If properly made, they are impervious to all acids, whether inorganic, like sulphuric, hydro-chloric, nitric, etc., or organic acids, like oxalic, tartaric or malic and group; benzoic, its group; acetic, formic and group, etc. Exceptions: Inorganic acids, viz., hydro-fluoric and hydro-fluosilicic, which dissolve glass.

They are also impervious to alkalies, such as potassa, soda, etc., and their compounds, and all other alkalies.

Germ-Proof They are all germ-proof, and easily cleaned, hence their universal use in hospitals.

Early Enameled Bricks While Egypt made the first bricks without straw, she must also be credited with making the first enameled bricks, and it is calculated to be about 12,000 years ago. Through wars and other disturbances the art was lost for many centuries, and only in 1438 was revived by Lucca della Robbia, an Italian. Lucca della Robbia was born in Florentine, Italy, in 1400. When quite young he learned the trade of goldsmith; but for the love of the ceramic art he gave up his goldsmith trade, and devoted his whole attention to ceramic chemistry and modeling in the clay; and at the age of 38 years he produced most beautiful enameled terra cotta and bricks. This first enameled terra cotta he made in a blue background with white enamel in relief; later he came out with green, brown, yellow and violet in the background of his terra cotta. All his work is well known for its beautiful designs and purity of its enamels, and much of his work may be seen in many churches and museums in France, Italy and Spain. He died in 1481, and left a large business to his nephew, Andreas della Robbia.

Modern Art in Ceramics Modern art soon laid her finger upon the industry, and dictated beautiful forms and colors. The story is a long and interesting one—too long to be recounted here. It shows, as do all stories of human progress, that the luxuries of to-day are the necessities of to-morrow. Most of the colonial mansions that were the "fine houses" of our American forefathers were built

of common bricks imported from the mother country. What man, even of moderate means, to-day would be content to use such bricks? And why should he, since he can now get bricks made at home that are far superior to anything he could import from abroad?

Enamel

THE MOST MARKED ADVANCE IN BRICK-MAKING DURING THE NINETEENTH CENTURY HAS BEEN ALONG THE LINE OF APPLYING THE BEAUTIFUL COLORING AND GLAZED FINISH OF POTTERY TO THE SURFACE OF THE BRICK. THIS WAS FIRST SUCCESSFULLY ACCOMPLISHED COMMERCIALLY IN ENGLAND, BUT NOW THE *"AMERICAN"* ENAMELED BRICK EQUALS, IF NOT SURPASSES, THE ENGLISH PRODUCT IN QUALITY, AND CUTS THE ALMOST PROHIBITIVE PRICE OF THE IMPORTED ARTICLE DOWN TO HALF AND EVEN LESS PER SQUARE FOOT, AND OFFERS A MATERIAL FOR INTERNAL AND EXTERNAL USE IN BUILDING CONSTRUCTION CAPABLE OF MOST ARTISTIC TREATMENT AND ALWAYS SANITARY AND CLEAN.

Early Mistakes and Bad Reputation of the Domestic Manufacturer

Early attempts by the domestic manufacturer to make his product on poor bodies, such as common red burning clays, some even trying it on already burnt common brick, led to disastrous results, warping body in high temperature necessary to flux the enamel.

Soft Glazes

Soft glazes are also used by some manufacturers, requiring less degree of heat, but at expense of durability, crazing and scaling off, and become the bugbear of the builder, architect and owner who use them. This class of bricks has generally a bright, glaring finish, but will soon craze and discolor.

Hard Enamels

We are using nothing but hard, durable enamels on a light buff fire-clay body, standing heat and cold and natural changes easily, and while these enamels are more costly, we know that this is the only safe material to be used on this class of goods, which is exposed to constant changes of temperature, which means continual expansion and contraction.

Reduction in Price

By the introduction and use of improved machinery this company has made a great reduction in the market price of ENAMELED BRICK, thus benefiting the entire building trade—architect, builder and owner profiting largely by the fact—and the public indirectly by the vastly improved appearance and sanitary condition of public buildings and their accessories.

Buildings

Among the many hundreds of improvements and buildings in which our goods have been used we mention some leading ones here, but refer especially to our more complete *partial* list and illustrations on pages 30 to 63—all furnished by us—representing over ten million brick used in 402 buildings.

Interior Construction and Decoration

New York and Boston Subways, and Southern Terminal Station Subway, Boston, contain over one million brick of our make to 1905.

Out of 36 or more PALATIAL RESIDENCES we have supplied, the following are the most prominent:

Hon. W. A. Clark (Senator from Montana), Fifth avenue and 77th street, New York	175,000	First Quality.
Charles M. Schwab (ex-president of the United States Steel Corporation), Riverside Drive, New York	175,000	
"Castle Gould" (Howard Gould's estate), Port Washington, L. I.	41,000	Seconds.
Hon. Whitelaw Reid's "Ophir Farm," Portchester, N.Y.	67,000	

Here numerous uses of ENAMELED BRICKS for sanitary, as well as ornamental purposes, were found.

Abattoirs and Meat Packing Houses for the slaughter of animals and their storage; comfort stations; bath-rooms; stables; dairies, etc., etc.

Philadelphia's Palatial Hotel, the "Bellevue-Stratford," required over 467,000. These buildings, erected years, ago, the brick subjects to exposure, are still pure and white as the day they were laid.

Exterior Decoration and Construction

FRONTS.—Thomas & Bull Building, Columbus, Ohio.
Tenement Houses, New York City.
R. G. Dun Building, New York City.
Frick Building Annex, Pittsburg, Pa.
See page 37.

LIGHT-SHAFTS.—Stillings Building, Boston.
Real Estate and Trust Building, Philadelphia.
See page 35.

For partial list of our work and photographs of interesting architectural treatment, see pages 30-63.

EXTENDED USES

THE successful manufacture of enameled brick has greatly extended the use of brick work, not only for artistic effects, but on the utilitarian side where bricks have heretofore been impossible.

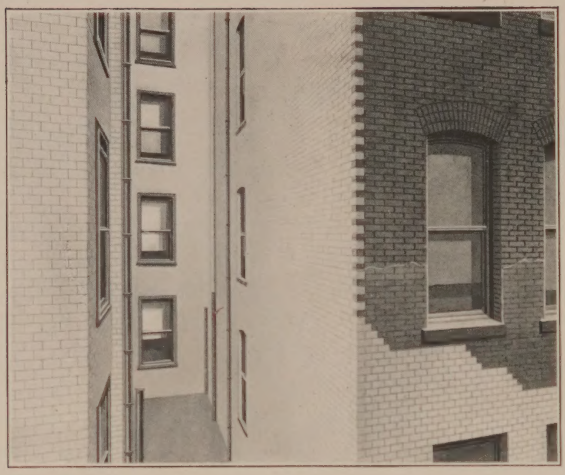
The most notable development in the employment of enameled bricks has been for sanitary construction. More recent progress in surgery and medicine has taught man the lesson of cleanliness: Thus he finds the glassy surface of the enameled brick affords the very best, easiest, and most substantial means of obtaining cleanliness.

Almost innumerable are the different purposes to which they are adapted for construction at once sanitary and ornamental. Perhaps the most obvious one is that in the operating rooms and wards of hospitals, where they serve a double purpose. They render available the maximum amount of light in the room, and they make possible, as no other material can, the maintenance of aseptic conditions. In fact, their use has done wonders in making our public institutions cheerful and healthful. *Prisons, poor-houses, soldiers' and sailors' homes, schools, etc.,* which formerly admitted frightful conditions of gloom and disease, are now built on more humane principles, because the obvious means for doing so are at hand. Those interested in *model tenements* and the construction of clean, cheerful dwellings for the poor, turn naturally to ENAMELED BRICK as the best means for accomplishing their ends.

In modern buildings in cities, where the tendency is to encroach more and more upon every available foot of ground, these bricks suggest themselves as the best possible lining for light-shafts and the rears of buildings. They bring in light without disagreeable glare, and make it possible to keep the air-shafts and cellars dry and clean.

In light-shafts and elevator-shafts these bricks are already very extensively used. They should be universally employed in large cities for the adjacent side and rear walls and cellars of apartment houses, tenements, and also on walls of private dwellings where yards are small and the walls nearer together than they should be. The side walls of extensions, if built of enameled brick, would throw light into many a dining-room and make the lunch hour more cheerful, without artificial light.

London, England, requires by law the use of enameled brick in all courts and shafts of less than a fixed standard width, and the



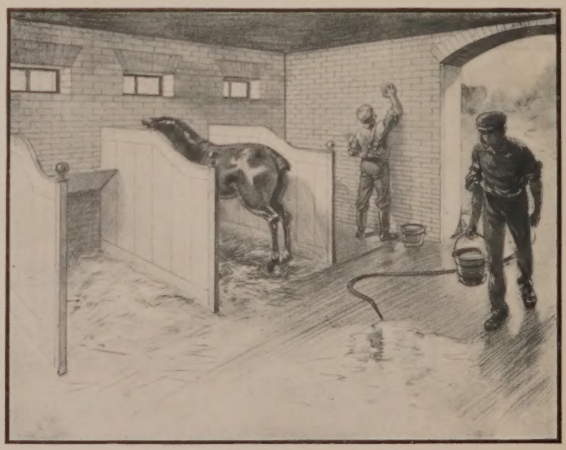
market of this city alone consumes over four million per annum.

By mutual arrangement owners may secure even more light in this way than by use of unsightly prismatic windows, which spoil outside appearances of many office buildings. Common porous brick walls absorb moisture, collect dust and germs, only to pass them inside on the draught, through open windows to those seeking air within. Enameled brick minimizes these dangers and, consequently, facilitates rental in the same way that modern sanitary plumbing does.

To the householder, whether rich or poor, these materials specially appeal for use in the *bath-room,* the *kitchen,* the *laundry,* the *cellar,* or other rooms where light and cleanliness are so desirable and so hard to attain under any but the most favorable conditions. They are the ideal material for *stable* construction, where keeping things clean means so much in health for man and beast.

To the *DAIRYMAN,* the *BUTCHER,* the *FISH DEALER,* the *BREWER, TO ALL WHO DEAL IN FOOD PRODUCTS,* ENAMELED BRICK needs no argument. It is rapidly becoming an essential.

So we might go down the long list and fill pages with uses to which this wonderfully simple product is best adapted. A perusal of the pages in this catalogue cannot fail to suggest many applications for decorative work of the very highest type, too numerous to touch on here.



In regard to the expense of ENAMELED BRICK, it should be borne in mind that, as against other material (inferior in decorative and hygienic possibilities), it will save its first cost many times in the small labor of cleaning and the elimination of painting and repairs.

UNITED STATES PATENT OFFICE

John Francis Booraem, of New York, N. Y., and Bernard Jacquart, of South River, New Jersey.

DESIGN FOR A TILE.

SPECIFICATION forming part of Design No. 33,481, dated October 30, 1900.

Application filed October 4, 1900. Serial No. 32,053.
Term of patent 14 years.

To All Whom It May Concern:

Be it known that we, JOHN FRANCIS BOORAEM, a resident of the borough of Manhattan, in the city and State of New York, and BERNARD JACQUART, a resident of South River, in the county of Middlesex and State of New Jersey, citizens of the United States, have invented and produced a new Design for a Tile, of which the following is a specification:

The essential feature of our design consists in a tile which is substantially square in form when viewed from the top and bottom, which is of vertically elongated rectangular form when viewed from the front and back, and which is of irregular polygonal form when viewed from either side, bounded as follows: A diagonal line connecting the vertical front line with the horizontal top line and two inwardly extended converging lines connected with each other and connecting the horizontal bottom line with the vertical back line, thus forming a reëntrant angle in the back of the tile.

In the accompanying drawings, Figure 1 is a view of the tile in top plan. Fig. 2 is a front view of the same. Fig. 3 is a side view of the tile. Fig. 4 is a back view, and Fig. 5 is a bottom plan view of the tile.

The tile is denoted as a whole by A, and it is of such form that it presents a substantially square figure when viewed from the top and bottom and a vertically elongated rectangular figure when viewed from the front and back.

The front of the tile is cut away, as shown at *a*, and the rear of the tile is cut away, as shown at *a'*, to form a reëntrant angle in the tile, so that when the tile is viewed from either side it presents an irregular figure having a diagonal line connecting the front vertical line of the tile with the horizontal top line and two inwardly extended converging lines connected with each other at their inner ends and connecting the horizontal bottom line with the vertical back line.

What we claim is—

The design for a tile substantially as herein shown and described.

In testimony that we claim the foregoing as our invention we have signed our names, in presence of two witnesses, this 21st day of September, 1900.

JOHN FRANCIS BOORAEM.
BERNARD JACQUART.

Witnesses:

JAMES S. WRIGHT.
ANNIE B. WALTERS.

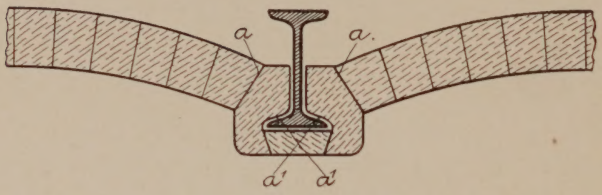
DESIGN.

No. 33,481. Patented Oct. 30, 1900.

J. F. BOORAEM & B. JACQUART.

TILE.

(Application filed Oct. 4, 1900.)



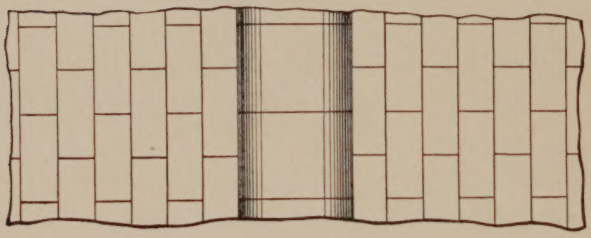


Fig. 1.

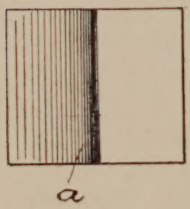


Fig. 2.

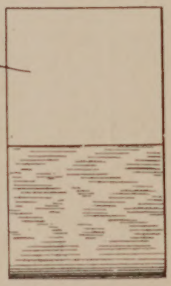


Fig. 3.

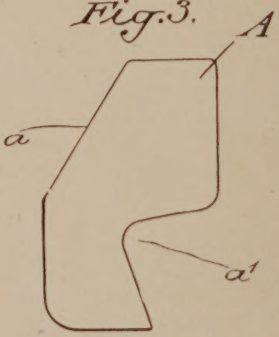


Fig. 4.

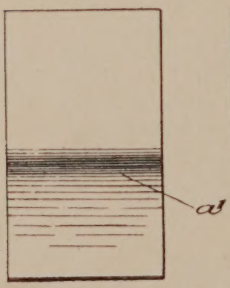


Fig. 5.

Witnesses.
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Edward Vieser.

Inventors:
John Francis Booraem
and Bernard Jacquart
by attorneys
Brown & Sherman

UNITED STATES PATENT OFFICE.

BERNARD JACQUART, OF SOUTH RIVER, NEW JERSEY.

BRICK OR TILE COVERING FOR BEAMS.

SPECIFICATIONS forming part of Letters Patent No. 674,089, dated May 14, 1901. Application filed February 26, 1901. Serial No. 48,937. (No Model.)

My invention relates to an improvement in brick or tile coverings for beams, with the object in view of providing a structure which will entirely cover the exposed portions of the beam, preferably provided with an enameled face.

A further object is to provide a structure composed of an intermediate series of bricks or tiles located along one surface of the beam, which bricks or tiles are securely locked in position by two series of bricks or tiles, which form the adjacent bases of the arches which span the spaces between the said beam and the next succeeding beams on either side.

A further object is to provide an enameled brick or tile covering for beams in which the base or locking bricks or tiles of the arches are not exposed, a single joint being formed at the meeting corners of the intermediate brick or tile, the locking bricks or tiles and the adjacent arch bricks or tiles, the enameled face of the intermediate brick or tile forming a continuation of the enameled faces of the said adjacent arch bricks or tiles.

A practical embodiment of my invention is represented in the accompanying drawings, in which

Figure 1 represents, in vertical cross section, a portion of a ceiling with my improved beam covering applied to a metallic I-beam.

Figure 2 is an inverted plan view of the same.

Figure 3 is a section taken in the plane of the line A-A of Figure 1.

Figure 4 is a view in perspective of one of the locking bricks or tiles, and

Figure 5 is a view in perspective of one of the intermediate bricks or tiles.

The metallic I-beam represented in the accompanying drawings, is denoted by *a* and the bricks or tiles which form the arches, by *b*.

The bricks or tiles which are in engagement with the I-beam and which form the bases of the arches are denoted by *c*. The intermediate bricks or tiles which are locked in position along one face of the beam *a* by the bricks or tiles *c*, are denoted by *d*. The reveals or exposed surfaces of the arch bricks or tiles *b* and the exposed surface of the intermediate bricks or tiles *d* are provided with an enameled facing or surface *e*.

As all of the locking bricks or tiles *c* which form the bases of the arches which span the spaces between the different beams, are quite similar in form, I will proceed to describe one only of the said bricks or tiles.

The brick or tile *c* is provided with a slanting outer side *f*, against which the next adjacent brick or tile of the arch abuts. The inner side *g* of the brick or tile is arranged to abut against the web of the I-beam.

The front of the brick or tile is provided with a locking tongue *h* running lengthwise thereof, formed by providing a V-shaped groove *i* in the outer front corner of the brick or tile and cutting away the inner front corner of the brick or tile, as shown at *j*, preferably forming an inclined surface arranged to correspond with the inner surface of one flange of the base of the I-beam *a*.

The intermediate brick or tile has an interlocking connection with the two locking bricks or tiles in the present instance by providing the inner face of the intermediate brick or tile with a wide dove-tailed groove *k* extended lengthwise therethrough, the groove being of sufficient width to receive therein the base of the beam and the outwardly extended tongues *h* of the two adjacent locking bricks or tiles *c*.

The inner face of the brick or tile *d* upon opposite sides of the groove is so arranged that it will snugly fit the angles formed in the outer front corners of the two locking bricks or tiles *c*, a single joint being formed upon each side of the beam, betweeen the meeting corners of adjacent arch brick or tile, the locking brick or tile and the intermediate brick or tile, thus entirely concealing the locking brick or tile *c*. The bottom of the dove-tailed groove *k* in the intermediate brick or tile is preferably made to snugly fit the outer ends of the tongues *h* of the two locking bricks or tiles *c* and the outer face of the base of the I-beam *a*.

By providing the beam with the covering hereinbefore set forth, it will be seen that I am enabled to entirely do away with the necessity of providing the locking bricks or tiles *c* with an enameled face, thus materially reducing the expense of producing the covering.

The bricks or tiles *c* may be dried and burnt within the kiln without requiring the special care and space that is necessary when the enameled facing is applied thereto.

Furthermore, a fewer number of exposed joints is obtained, the only exposed joint in the covering being the one at the angle formed between the intermediate brick or tile and the arch brick or tile *b* at each side of the beam.

It is evident that slight changes might be resorted to in the form, construction and arrangement of the several parts without departing from the spirit and scope of my invention; hence I do not wish to limit myself strictly to the structure herein set forth, but what I claim is:

1. A beam covering comprising an intermediate brick or tile and a pair of locking bricks or tiles having an interlocking connection with the back of the intermediate brick or tile for holding it in position, substantially as set forth.

2. A beam covering comprising an intermediate brick or tile, arch bricks or tiles and locking bricks or tiles having an interlocking engagement with the intermediate brick or tile and being concealed by the intermediate brick or tile and the adjacent arch bricks or tiles, substantially as set forth.

3. A beam covering comprising an intermediate brick or tile located along the outer face of the beam and a pair of locking bricks or tiles upon opposite sides of the beam, having tongue and groove connections with the intermediate brick or tile for locking the intermediate brick or tile in position, substantially as set forth.

4. A beam covering comprising an intermediate brick or tile located along one face of the beam and having a dove-tailed groove therein and a pair of locking bricks or tiles upon opposite sides of the beam, having tongues thereon engaging said grooves for locking the intermediate brick or tile in position, substantially as set forth.

5. In combination, an intermediate brick or tile having a dove-tailed groove therein, a beam having a flanged base located in the said groove and a pair of locking bricks or tiles upon opposite sides of the beam having portions thereof interposed between the base of the beam and the sides of the groove in the intermediate brick or tile for locking the intermediate brick or tile in position, substantially as set forth.

6. An enameled covering for beams comprising an enameled intermediate brick or tile, enameled arch bricks or tiles and intermediate non-enameled locking bricks or tiles upon opposite sides of the beam, the said non-enameled bricks or tiles being concealed by the intermediate enameled brick or tile and the adjacent enameled arch bricks or tiles, substantially as set forth.

7. A locking brick or tile having an outwardly extended tongue formed along its outer face by providing a V-shaped groove in its outer front edge and cutting away a portion of its inner front edge, substantially as set forth.

No. 674,089. Patented May 14, 1901.

BERNARD JACQUART.

Brick or Tile Covering for Beams.

(Application filed Feb. 26, 1901.)

(No Model.)

Fig. 1.

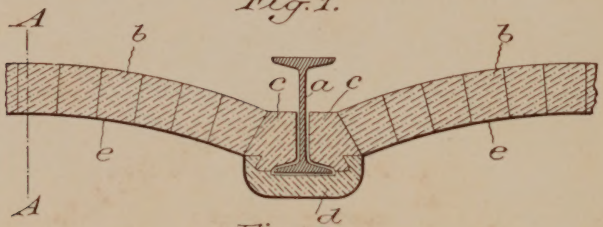

Fig. 2.

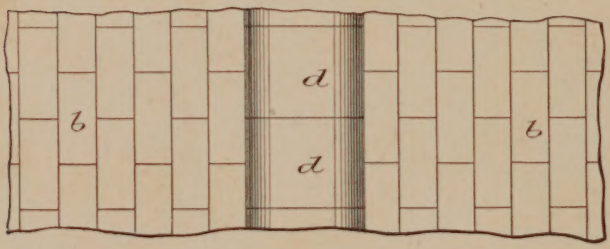

Fig. 3.

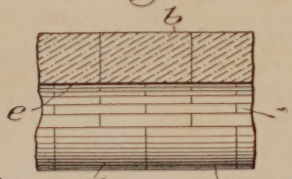

Fig. 4.

Fig. 5.

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Henry Thieme

Inventor:-
Bernard Jacquart
by his attorneys
Thomas Durand

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